

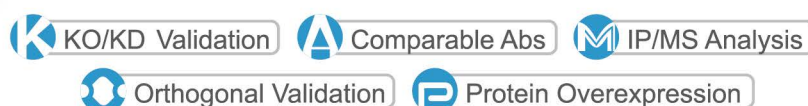
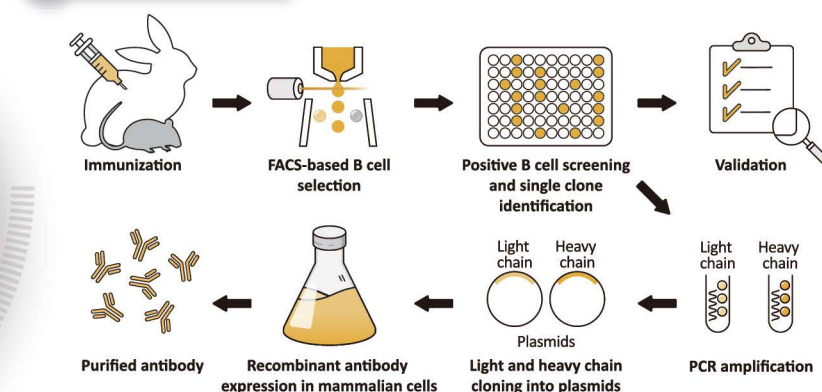
# Antibodies for Neuroscience Research

[www.genetex.com](http://www.genetex.com)

GeneTex is a multinational antibody manufacturing company dedicated to creating reagents for biomedical research, assay development, and *in vitro* diagnostics. The company operates state-of-the-art facilities to provide products generated through refined development and quality assurance programs, international collaboration with leading researchers, and scrupulous scientific rigor. GeneTex's antibodies and reagents are manufactured to standards outlined in Quality Management Systems (QMS) ISO 9001:2015 and ISO 13485:2016 and are supported by comprehensive validation and customer service.

To enhance its already extensive catalog of conventional polyclonal and monoclonal antibodies, GeneTex is now focusing its production on the creation of highly validated recombinant rabbit monoclonal antibodies with consistent specificity and performance. Though these recombinant antibodies will be directed against targets relevant to all fields of research, GeneTex has particular interest in developing outstanding reagents to support neuroscience research. The purpose of this brochure is to introduce you to many of our best neuroscience research products.

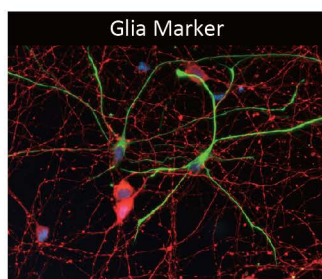
## Recombinant Rabbit Antibody Production Workflow



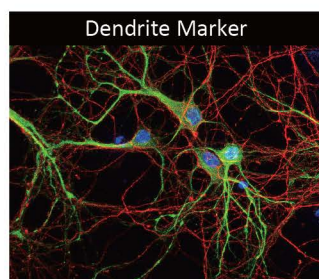
## New Recombinant Antibodies for Neuroscience Research



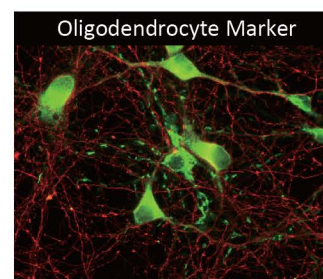
Neuron Marker  
beta Tubulin 3/ Tuj1 antibody [HL1709] (GTX637308)



Glia Marker  
GFAP antibody [HL1308] (GTX636726)



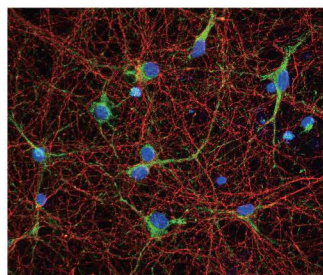
Dendrite Marker  
MAP2 antibody [HL1655] (GTX637253)



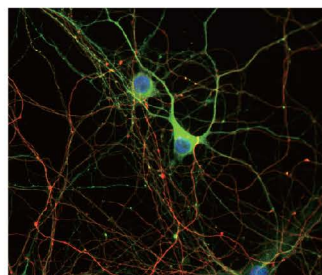
Oligodendrocyte Marker  
Myelin basic protein antibody [HL1033] (GTX635873)



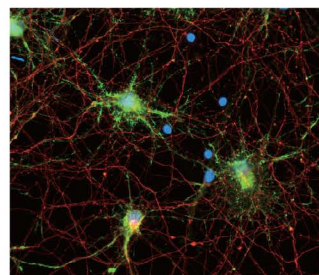
## New Recombinant Antibodies for Neuroscience Research



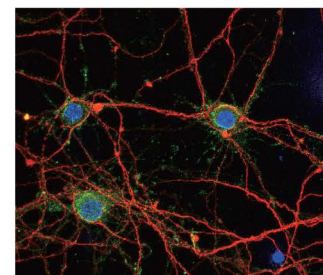
AChE antibody [HL1102]  
(GTX636298)



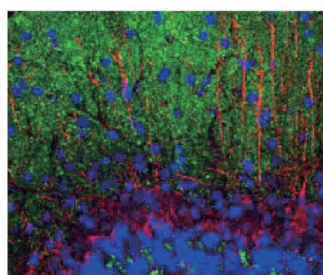
GAD65 + GAD67 antibody  
[HL1181] (GTX636487)



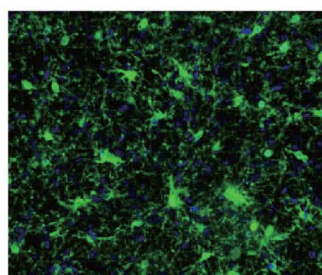
iNOS antibody [HL1213]  
(GTX636531)



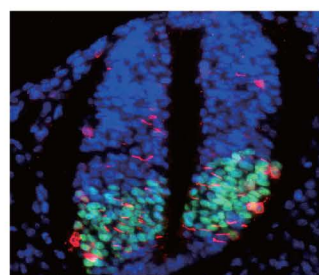
Synaptotagmin 1 antibody  
[HL1654] (GTX637252)



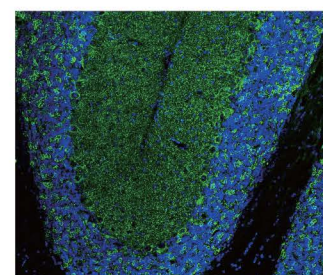
alpha Synuclein antibody  
[HL1242] (GTX636641)



Iba1 antibody [HL22]  
(GTX635363)



OLIG2 antibody [HL1072]  
(GTX636104)

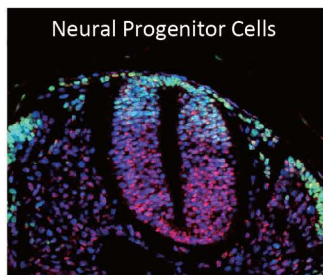


VGAT antibody [HL1616]  
(GTX637107)

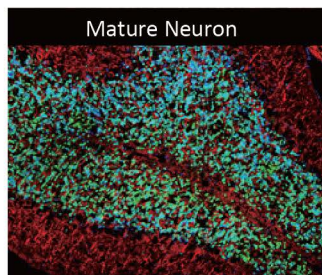
| Cat. No.  |  | Product Name                                | Clonality  | Reactivity             | Applications              |
|-----------|--|---------------------------------------------|------------|------------------------|---------------------------|
| GTX636298 |  | AChE antibody [HL1102]                      | Rec Rb mAb | Hu,Ms,Rat,Cat          | WB, ICC/IF, IHC-P         |
| GTX636641 |  | alpha Synuclein antibody [HL1242]           | Rec Rb mAb | Hu,Ms,Rat              | WB, ICC/IF, IHC-P, IHC-Fr |
| GTX637308 |  | beta Tubulin 3/ Tuj1 antibody [HL1709]      | Rec Rb mAb | Hu,Ms,Rat,Dm           | WB, ICC/IF, IHC-P         |
| GTX635397 |  | C9orf72 antibody [GT779-RB]                 | Rec Rb mAb | Hu,Ms,Rat,Cat          | WB, ICC/IF, IHC-P         |
| GTX638587 |  | Calbindin antibody [HL2379]                 | Rec Rb mAb | Hu,Ms,Rat              | WB, ICC/IF, IHC-P, IHC-Fr |
| GTX637416 |  | CD90 antibody [HL1766]                      | Rec Rb mAb | Hu,Ms,Rat              | WB, ICC/IF, IHC-P         |
| GTX636283 |  | CLOCK antibody [HL1099]                     | Rec Rb mAb | Hu,Ms,Rat              | WB, ICC/IF, IHC-P         |
| GTX636467 |  | Dopamine beta Hydroxylase antibody [HL1163] | Rec Rb mAb | Hu                     | WB, ICC/IF                |
| GTX636952 |  | Dopamine Receptor D2 antibody [HL1478]      | Rec Rb mAb | Hu,Ms,Rat              | WB, ICC/IF, IHC-P         |
| GTX636487 |  | GAD65 + GAD67 antibody [HL1181]             | Rec Rb mAb | Hu,Ms,Rat,Zfsh,Cat,Dog | WB, ICC/IF, IHC-P         |
| GTX636493 |  | GAD65 antibody [HL1187]                     | Rec Rb mAb | Hu,Ms,Rat,Zfsh,Cat,Dog | WB, ICC/IF, IHC-P         |
| GTX636280 |  | GAD67 antibody [HL1096]                     | Rec Rb mAb | Hu,Ms,Rat,Cat,Dog      | WB, IHC-P                 |
| GTX636725 |  | GFAP antibody [HL1307]                      | Rec Rb mAb | Hu,Ms,Rat              | WB, IHC-P, IHC-Fr         |
| GTX636726 |  | GFAP antibody [HL1308]                      | Rec Rb mAb | Ms,Rat                 | ICC/IF, IHC-P, IHC-Fr     |
| GTX635363 |  | Iba1 antibody [HL22]                        | Rec Rb mAb | Hu,Ms,Rat              | WB, ICC/IF, IHC-P, IHC-Fr |
| GTX638147 |  | Iba1 antibody [HL1880-MS]                   | Rec Rb mAb | Hu,Ms,Rat              | WB, ICC/IF, IHC-P, IHC-Fr |
| GTX636887 |  | IL1 beta antibody [HL1421]                  | Rec Rb mAb | Hu,Ms,Rat              | WB, ICC/IF, IHC-P, ELISA  |
| GTX636531 |  | iNOS antibody [HL1213]                      | Rec Rb mAb | Ms,Rat                 | WB, ICC/IF, IHC-P         |
| GTX637015 |  | IP3 Receptor I antibody [HL1541]            | Rec Rb mAb | Hu,Ms,Rat              | WB, ICC/IF, IHC-P         |
| GTX637254 |  | MAP2 antibody [HL1656]                      | Rec Rb mAb | Ms,Rat                 | ICC/IF, IHC-P             |
| GTX635873 |  | Myelin basic protein antibody [HL1033]      | Rec Rb mAb | Hu,Ms,Rat              | WB, ICC/IF, IHC-P, IHC-Fr |
| GTX636671 |  | NFIX antibody [HL1269]                      | Rec Rb mAb | Ms,Rat                 | ICC/IF, IHC-P             |
| GTX636104 |  | OLIG2 antibody [HL1072]                     | Rec Rb mAb | Ms,Rat                 | ICC/IF, IHC-P, IHC-Fr     |
| GTX635463 |  | PAX3 antibody [HL160]                       | Rec Rb mAb | Hu,Ms,Rat              | WB, IHC-P                 |
| GTX636799 |  | PDE6D antibody [HL1359]                     | Rec Rb mAb | Hu,Ms,Rat,Zfsh,Cat,Dog | WB, IHC-P                 |
| GTX636993 |  | RPE65 antibody [HL1519]                     | Rec Rb mAb | Ms                     | WB, IHC-P                 |
| GTX637255 |  | SNAP91 antibody [HL1657]                    | Rec Rb mAb | Hu,Ms,Rat,Cat          | WB, IHC-P                 |
| GTX636297 |  | Somatostatin antibody [HL1101]              | Rec Rb mAb | Ms,Rat,Cat,Dog         | WB, ICC/IF, IHC-P         |
| GTX637252 |  | Synaptotagmin 1 antibody [HL1654]           | Rec Rb mAb | Hu,Ms,Rat,Dm           | WB, ICC/IF                |
| GTX636678 |  | Tau (phospho Thr217) antibody [HL1276]      | Rec Rb mAb | Hu,Ms,Rat              | WB, ICC/IF, IHC-P, ELISA  |
| GTX637412 |  | Tyrosine Hydroxylase antibody [HL1762]      | Rec Rb mAb | Ms,Rat                 | WB, IHC-P                 |
| GTX637107 |  | VGAT antibody [HL1616]                      | Rec Rb mAb | Hu,Ms,Rat              | WB, ICC/IF, IHC-P, IHC-Fr |



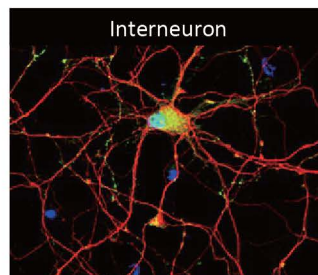
## Neural Markers



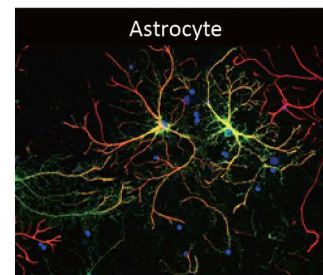
PAX3 antibody [HL160]  
(GTX635463)



NeuN antibody  
(GTX132974)



Somatostatin antibody [HL1101]  
(GTX636297)



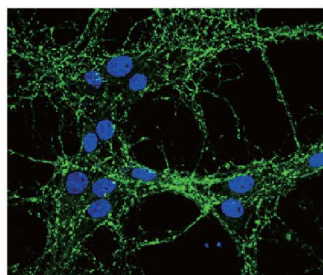
Glutamine synthetase antibody  
[GT1055] (GTX630654)

|                   | Cat. No.  | Product Name                           | Clonality  | Reactivity        | Applications                        |
|-------------------|-----------|----------------------------------------|------------|-------------------|-------------------------------------|
| Neural Progenitor | GTX630201 | Nestin antibody [GT623]                | Ms mAb     | Hu, Ms, Rat       | WB, ICC/IF, IHC-P, IHC-Fr           |
|                   | GTX635463 | PAX3 antibody [HL160]                  | Rec Rb mAb | Hu, Ms            | WB, IHC-P                           |
|                   | GTX627404 | SOX2 antibody [GT1876]                 | Ms mAb     | Hu, Ms, Rat, Zfsh | WB, ICC/IF, IHC-P, IHC-Fr, FACS, IP |
| Immature Neuron   | GTX634792 | NCAM antibody [GT135]                  | Ms mAb     | Hu, Ms, Rat       | WB, ICC/IF, IHC-P                   |
| Mature Neuron     | GTX638198 | NeuN antibody [HL2194]                 | Rec Rb mAb | Ms, Rat           | ICC/IF, IHC-P, IHC-Fr               |
|                   | GTX132974 | NeuN antibody                          | Rb pAb     | Ms, Rat, Fish     | WB, ICC/IF, IHC-P, IHC-Fr           |
| Interneuron       | GTX636297 | Somatostatin antibody [HL1101]         | Rec Rb mAb | Ms, Rat           | WB, ICC/IF, IHC-P                   |
| Microglia         | GTX635363 | Iba1 antibody [HL22]                   | Rec Rb mAb | Hu, Ms, Rat       | WB, ICC/IF, IHC-P, IHC-Fr           |
|                   | GTX636531 | iNOS antibody [HL1213]                 | Rec Rb mAb | Ms, Rat           | WB, ICC/IF, IHC-P                   |
|                   | GTX134087 | TMEM119 antibody                       | Rb pAb     | Ms                | IHC-P, IHC-Fr                       |
| Oligodendrocyte   | GTX635873 | Myelin basic protein antibody [HL1033] | Rec Rb mAb | Hu, Ms, Rat       | WB, ICC/IF, IHC-P, IHC-Fr           |
|                   | GTX636104 | OLIG2 antibody [HL1072]                | Rec Rb mAb | Ms, Rat           | ICC/IF, IHC-P, IHC-Fr               |
| Astrocyte         | GTX636726 | GFAP antibody [HL1308]                 | Rec Rb mAb | Ms, Rat           | ICC/IF, IHC-P, IHC-Fr               |
|                   | GTX630654 | Glutamine synthetase antibody [GT1055] | Ms mAb     | Hu, Ms, Rat       | WB, ICC/IF, IHC-P, IHC-Fr           |

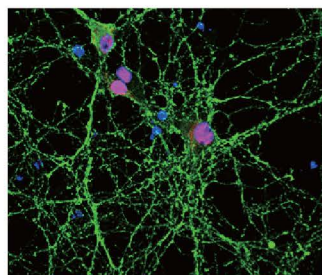


## Neurites & Synapses

### Presynaptic Marker

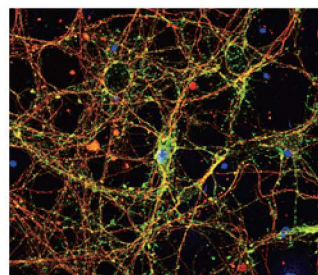


Synaptophysin antibody  
[GT2589] (GTX633972)

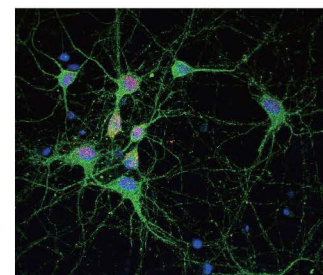


VAMP2 antibody [GT6311]  
(GTX634812)

### Postsynaptic Marker



Homer1 antibody  
(GTX103278)

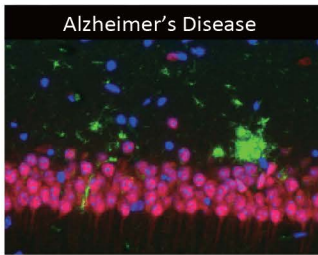


PSD95 antibody [GT1234]  
(GTX634291)

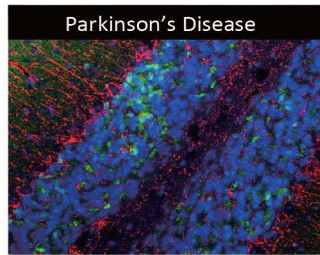
|                     | Cat. No.  | Product Name                      | Clonality  | Reactivity  | Applications                                     |
|---------------------|-----------|-----------------------------------|------------|-------------|--------------------------------------------------|
| Axon                | GTX130053 | alpha Internexin antibody         | Rb pAb     | Hu, Ms, Rat | WB, ICC/IF, IP                                   |
|                     | GTX634289 | NF-H antibody [GT114]             | Ms mAb     | Hu, Ms, Rat | WB, ICC/IF, IHC-P, IHC-Fr                        |
|                     | GTX101142 | NF-L antibody                     | Rb pAb     | Hu, Ms, Rat | WB, ICC/IF, IHC-P, IHC-Fr, ELISA, Sandwich ELISA |
|                     | GTX634483 | NF-M antibody [GT883]             | Ms mAb     | Hu, Ms, Rat | WB, ICC/IF, IHC-P, IHC-Fr, IHC                   |
|                     | GTX130462 | Tau antibody                      | Rb pAb     | Hu, Ms, Rat | WB, ICC/IF, IHC-P, IHC-Fr, IHC                   |
| Dendrite            | GTX634473 | MAP2 antibody [GT925]             | Ms mAb     | Ms, Rat     | WB, ICC/IF, IHC-P                                |
| Presynaptic Marker  | GTX100865 | Synaptophysin antibody            | Rb pAb     | Hu, Ms, Rat | WB, ICC/IF, IHC-P, IHC-Fr, IHC-Wm                |
|                     | GTX633972 | Synaptophysin antibody [GT2589]   | Ms mAb     | Hu, Ms, Rat | WB, ICC/IF, IHC-P                                |
|                     | GTX637252 | Synaptotagmin 1 antibody [HL1654] | Rec Rb mAb | Hu, Ms, Rat | WB                                               |
|                     | GTX634812 | VAMP2 antibody [GT6311]           | Ms mAb     | Ms, Rat     | WB, ICC/IF, IHC-P                                |
| Postsynaptic Marker | GTX103278 | Homer1 antibody                   | Rb pAb     | Hu, Ms, Rat | WB, ICC/IF, IHC-P, IHC-Fr, IP                    |
|                     | GTX634291 | PSD95 antibody [GT1234]           | Ms mAb     | Ms, Rat     | WB, ICC/IF                                       |



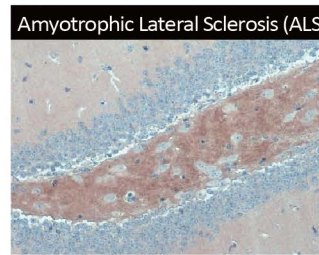
## Neurodegenerative Disorders



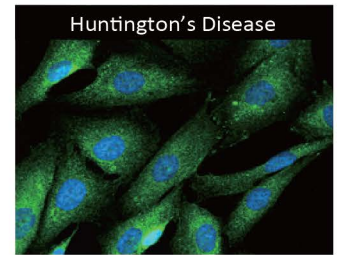
Alzheimer's Disease  
beta Amyloid (1-42) antibody –  
Conformation Specific [GT622]  
(GTX635160)



Parkinson's Disease  
alpha Synuclein antibody  
[HL1243] (GTX636642)



Amyotrophic Lateral Sclerosis (ALS)  
C9orf72 antibody [GT779]  
(GTX632041)

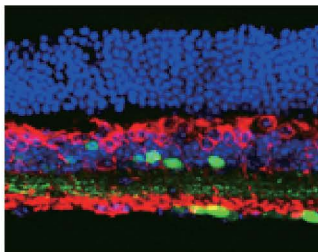


Huntington's Disease  
Huntingtin antibody  
(GTX132433)

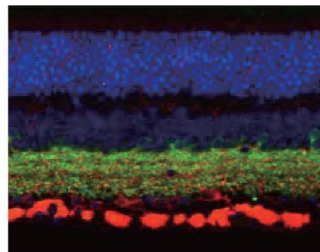
|                                     | Cat. No.  | Product Name                                                             | Clonality  | Reactivity | Applications                      |
|-------------------------------------|-----------|--------------------------------------------------------------------------|------------|------------|-----------------------------------|
| Alzheimer's Disease                 | GTX635160 | beta Amyloid (1-42) antibody –<br>Conformation Specific antibody [GT622] | Ms mAb     | Hu,Ms      | IHC-P, Dot, ELISA, Sandwich ELISA |
|                                     | GTX634809 | Tau antibody [GT287]                                                     | Ms mAb     | Ms,Rat     | WB, ICC/IF                        |
|                                     | GTX635891 | Apolipoprotein E antibody [GT1627]                                       | Ms mAb     | Hu,Rat     | WB, IP, ELISA, Sandwich ELISA     |
| Parkinson's Disease                 | GTX636642 | alpha Synuclein antibody [HL1243]                                        | Rec Rb mAb | Hu,Ms,Rat  | WB, IHC-P, IHC-Fr                 |
|                                     | GTX109637 | PGP9.5 antibody                                                          | Rb pAb     | Hu,Ms,Rat  | WB, ICC/IF, IHC-P, IHC-Fr         |
|                                     | GTX637412 | Tyrosine Hydroxylase antibody [HL1762]                                   | Rec Rb mAb | Ms,Rat     | WB, IHC-P                         |
| Amyotrophic Lateral Sclerosis (ALS) | GTX632041 | C9orf72 antibody [GT779]                                                 | Ms mAb     | Hu,Ms,Rat  | WB, ICC/IF, IHC-P, IP             |
|                                     | GTX130828 | Nek1 antibody                                                            | Rb pAb     | Hu,Ms      | WB, ICC/IF, IP                    |
|                                     | GTX630197 | TDP43 antibody [GT733]                                                   | Ms mAb     | Hu,Ms,Rat  | WB, ICC/IF, IHC-P, IP             |
| Huntington's Disease                | GTX132433 | Huntingtin antibody                                                      | Rb pAb     | Hu,Ms,Rat  | WB, ICC/IF, IHC-P                 |
|                                     | GTX129156 | SIN3A antibody                                                           | Rb pAb     | Hu,Ms,Rat  | WB, ICC/IF, IHC-P, IP, ChIP assay |



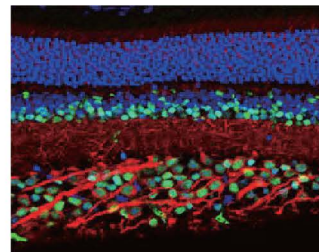
## Vision & Retina



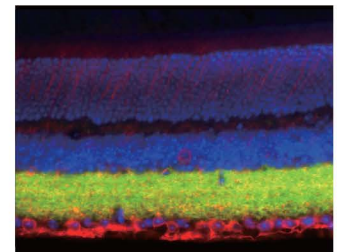
Choline Acetyltransferase antibody  
[N1N3] (GTX113164)



GAD67 antibody [HL1096]  
(GTX636280)



PAX6 antibody [GT9412]  
(GTX634863)



VGAT antibody [HL1615]  
(GTX637106)

|  | Cat. No.  | Product Name                                | Clonality  | Reactivity        | Applications                       |
|--|-----------|---------------------------------------------|------------|-------------------|------------------------------------|
|  | GTX103261 | Calretinin antibody                         | Rb pAb     | Hu,Ms,Rat         | WB, ICC/IF, IHC-P, IHC-Fr          |
|  | GTX637915 | Choline Acetyltransferase antibody [HL2014] | Rec Rb mAb | Ms,Rat            | WB, ICC/IF, IHC-P                  |
|  | GTX113164 | Choline Acetyltransferase antibody [N1N3]   | Rb pAb     | Hu,Ms,Rat         | WB, ICC/IF, IHC-P, IHC-Fr          |
|  | GTX112846 | CREB antibody                               | Rb pAb     | Hu,Ms,Rat         | WB, ICC/IF, IHC-P, IHC-Fr          |
|  | GTX636280 | GAD67 antibody [HL1096]                     | Rec Rb mAb | Hu,Ms,Rat,Cat,Dog | WB, IHC-P                          |
|  | GTX100446 | p27 Kip1 antibody                           | Rb pAb     | Hu,Ms             | WB, ICC/IF, IHC-P, IHC-Fr, IP, IHC |
|  | GTX634863 | PAX6 antibody [GT9412]                      | Ms mAb     | Hu,Ms,Rat         | WB, ICC/IF, IHC-P                  |
|  | GTX130453 | PKC alpha antibody                          | Rb pAb     | Hu,Ms,Rat,Zfsh    | WB, ICC/IF, IHC-Fr                 |
|  | GTX133091 | PSD95 antibody                              | Rb pAb     | Hu,Ms,Rat         | WB, ICC/IF, IHC-P, IHC-Fr          |
|  | GTX115443 | SCGN antibody [N2C3]                        | Rb pAb     | Hu,Ms,Rat         | WB, ICC/IF, IHC-P, IHC-Fr          |
|  | GTX133241 | VAMP2 antibody                              | Rb pAb     | Ms,Rat            | WB, ICC/IF, IHC-P, IHC-Fr          |
|  | GTX637106 | VGAT antibody [HL1615]                      | Rec Rb mAb | Hu,Ms,Rat         | WB, ICC/IF, IHC-P                  |

