

Hybridoma Conversion to Recombinant Antibody Service

The revolutionary work by Köhler and Milstein in 1975 introduced the world to monoclonal antibody production through hybridoma technology. It is impossible to overstate the significance of this discovery to basic research, diagnostics, and therapy. However, it is now clear that hybridoma cell lines are vulnerable to genetic drift, contamination, or failure to grow once thawed and in culture, thereby risking the source of the antibody.

To eliminate this threat to essential hybridoma-generated monoclonal antibodies, GeneTex is offering a service that allows preservation of the antibody chain sequences encoded in the hybridoma by converting them to fully recombinant constructs, with subsequent generation of the recombinant antibody.

Each step of the process is shown below, and pricing will be discussed with the customer based on their specific needs:

Steps from hybridoma IgG to recombinant IgG:

Hybridoma to Sequence



High-fidelity sequencing of the hybridoma IgG heavy and light chains

Recombinant Antibody Conversion



Selected IgG species backbone and subclass (Mouse, Rabbit, Rat, Human, Hamster)

Antibody Application(s) Selection

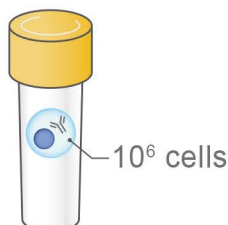


Project-dependent Validation

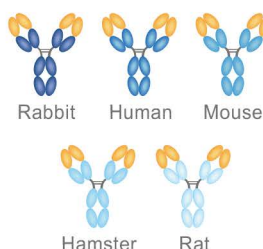
- ELISA
- WB
- ICC/IF
- IHC (IHC-P, IHC-Fr)
- Others

Customer provides:

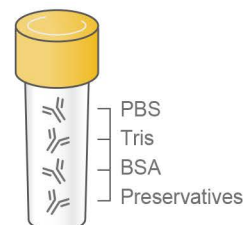
Hybridoma Cells



IgG species backbone and subclass request

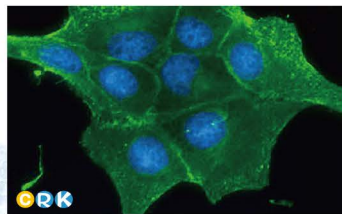


Desired Buffer Formulation

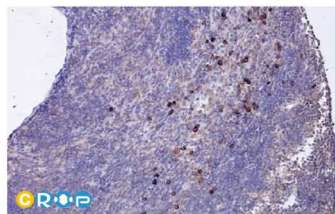


Converted Monoclonal Antibodies

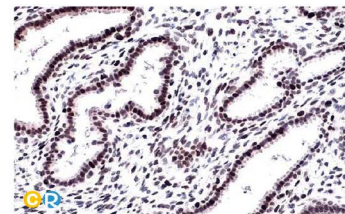
Direct Conversion



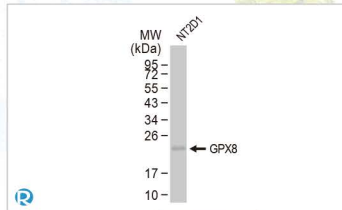
beta Catenin antibody [GT2169] (GTX633010)



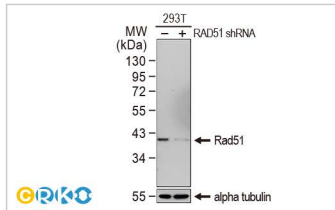
CXCL16 antibody [GT516] (GTX632502)



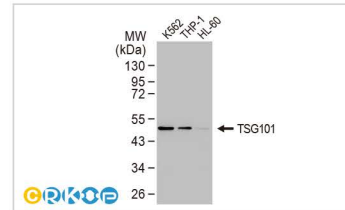
DNA ligase I antibody [10H5] (GTX70141)



GPX8 antibody [8-1] (GTX635455)



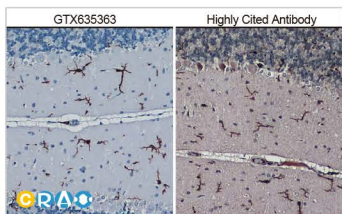
Rad51 antibody [14B4] (GTX70230)



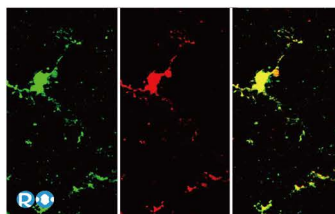
TSG101 antibody [4A10] (GTX70255)

	Cat. No.	Product Name	Host & Clonality	Reactivity	Applications
	GTX633010	beta Catenin antibody [GT2169]	Rec Ms mAb	Hu, Ms, Dog	WB, ICC/IF, IHC-P
	GTX632502	CXCL16 antibody [GT516]	Rec Ms mAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P
	GTX70141	DNA ligase I antibody [10H5]	Rec Ms mAb	Hu, Ms	WB, ICC/IF, IHC-P, IP
	GTX635455	GPX8 antibody [8-1]	Rec Ms mAb	Hu	WB
	GTX70230	Rad51 antibody [14B4]	Rec Ms mAb	Hu, Ms, Rat, Chk	WB, ICC/IF, IHC-P, IP, IHC, PLA
	GTX70255	TSG101 antibody [4A10]	Rec Ms mAb	Hu, Ms, Rat, Zfsh, Dog, Hm, Pig, Mk	WB, ICC/IF, IHC-P, FACS, IP, ELISA, EM, IHC, IHC (Free Floating)

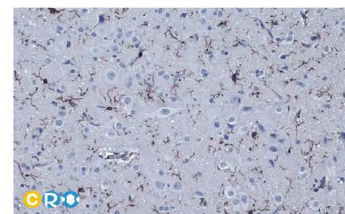
Backbone Switch



IHC-P analysis of rat cerebellum tissue using Iba1 antibody [HL22] (GTX635363) (left) shows superior performance compared to highly cited competitor (right).

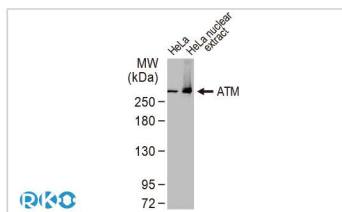


IHC-Fr analysis of mouse brain tissue co-stained with original rabbit Iba1 antibody [HL22] (GTX635363) (Green) and backbone-switched rat Iba1 antibody [HL22-RT] (GTX635400) (Red).

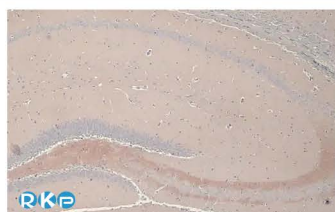


IHC-P analysis of rat brain tissue using backbone-switched mouse Iba1 antibody [HL22-MS] (GTX635399).

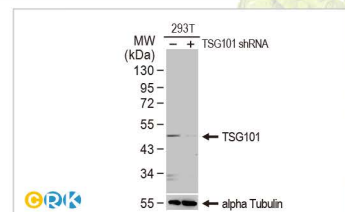
	Cat. No.	Product Name	Host & Clonality	Reactivity	Applications
	GTX635363	Iba1 antibody [HL22]	Rec Rb mAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, IHC-Fr
	GTX635400	Iba1 antibody [HL22-RT]	Rec Rat mAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, IHC-Fr
	GTX635399	Iba1 antibody [HL22-MS]	Rec Ms mAb	Hu, Ms, Rat	WB, IHC-P, IHC-Fr



ATM antibody [2C1-RB] (GTX635395)



C9orf72 antibody [GT779-RB] (GTX635397)



TSG101 antibody [4A10-RB] (GTX635396)

	Cat. No.	Product Name	Host & Clonality	Reactivity	Applications
	GTX635395	ATM antibody [2C1-RB]	Rec Rb mAb	Hu, Ms, Rat	WB, IHC-P
	GTX70103	ATM antibody [2C1]	Ms mAb	Hu, Ms, Rat, Mk	WB, ICC/IF, IHC-P, FACS, IP, ELISA, ChIP assay, IHC
	GTX635397	C9orf72 antibody [GT779-RB]	Rec Rb mAb	Hu, Ms, Rat, Cat	WB, ICC/IF, IHC-P
	GTX632041	C9orf72 antibody [GT779]	Ms mAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, IP
	GTX635396	TSG101 antibody [4A10-RB]	Rec Rb mAb	Hu, Ms, Rat	WB, ICC/IF
	GTX70255	TSG101 antibody [4A10]	Rec Ms mAb	Hu, Ms, Rat, Zfsh, Dog, Hm, Pig, Mk	WB, ICC/IF, IHC-P, FACS, IP, ELISA, EM, IHC, IHC (Free Floating)

(Distributor In India)



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