

FMR1 Monoclonal antibody

Catalog Number: 66548-1-Ig

Featured Product

3 Publications

Basic Information

Catalog Number: 66548-1-Ig	GenBank Accession Number: BC038998	Purification Method: Protein A purification
Size: 150ul, Concentration: 2100 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 2332	CloneNo.: 2B5B5
Source: Mouse	Full Name: fragile X mental retardation 1	Recommended Dilutions: WB 1:2000-1:10000 IP 0.5-4.0 ug for IP and 1:1000-1:6000 for WB IHC 1:250-1:1000
Isotype: IgG2a	Calculated MW: 632 aa, 71 kDa	
Immunogen Catalog Number: AG4697	Observed MW: 69-72 kDa	

Applications

Tested Applications: FC, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: IF, WB	WB: HeLa cells, HEK-293 cells, K-562 cells, Jurkat cells, HSCT6 cells
Species Specificity: Human, rat, mouse	IP: HeLa cells,
Cited Species: human, mouse	IHC: human gliomas tissue, mouse brain tissue, human liver tissue, human colon cancer tissue, human colon tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

The selective RNA-binding protein FMRP forms a messenger ribonucleoprotein complex that associates with polyribosomes, implicating in regulation of translation. FMR1 is a component of the CYFIP1-EIF4E-FMR1 complex which binds to and represses the mRNA. It also has a role in the transport of mRNA from the nucleus to the cytoplasm. FMR1 exists several isoforms and the molecular weight of FMR1 is about 59-72 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Belinda J Petri	36341798	Environ Res	WB
Raeann Goering	32510328	Elife	WB
Cheng Wu	37152432	Front Mol Neurosci	IF

Storage

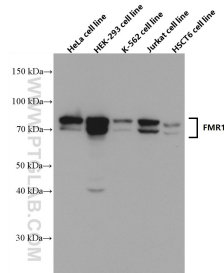
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
 Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

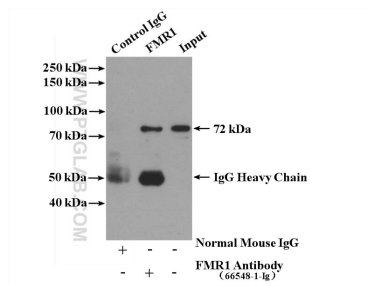
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
 W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

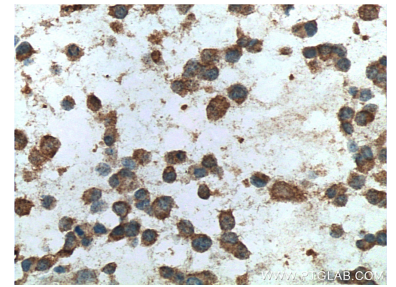
Selected Validation Data



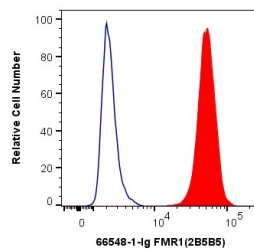
Various lysates were subjected to SDS PAGE followed by western blot with 66548-1-Ig (FMR1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



IP result of anti-FMR1 (IP:66548-1-Ig, 5ug; Detection:66548-1-Ig 1:3000) with HeLa cells lysate 3200 ug.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 66548-1-Ig (FMR1 antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).



1X10⁶ Jurkat cells were intracellularly stained with 0.4 ug Anti-Human FMR1 (66548-1-Ig, Clone:2B5B5) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).