

For Research Use Only

# FMR1 Monoclonal antibody

Catalog Number: 66548-1-Ig

Featured Product

3 Publications



## Basic Information

Catalog Number:

66548-1-Ig

Size:

2100 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG4697

GenBank Accession Number:

BC038998

GeneID (NCBI):

2332

UNIPROT ID:

Q06787

Full Name:

fragile X mental retardation 1

Calculated MW:

632 aa, 71 kDa

Observed MW:

69-72 kDa

Purification Method:

Protein A purification

CloneNo.:

2B5B5

Recommended Dilutions:

WB 1:2000-1:10000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:250-1:1000

## Applications

Tested Applications:

FC, IHC, IP, WB, ELISA

Cited Applications:

IF, WB

Species Specificity:

Human, rat, mouse

Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : HeLa cells, HEK-293 cells, K-562 cells, Jurkat cells, HSCT6 cells

IP : HeLa cells,

IHC : human gliomas tissue, mouse brain tissue, human liver tissue, human colon cancer tissue, human colon tissue

## 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

For technical support and original validation data for this product please contact:

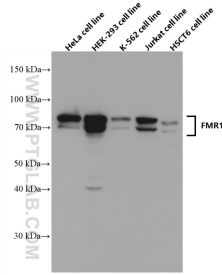
T: 4006900926

E: Proteintech-CN@ptglab.com

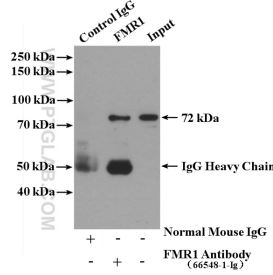
W: ptgcn.com

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

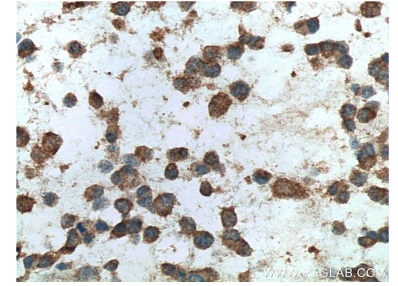
## Selected Validation Data



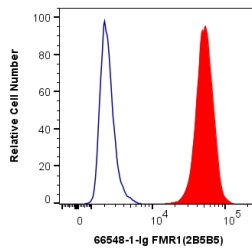
Various lysates were subjected to SDS PAGE followed by western blot with 66548-1-Ig (FMR1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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)).



1X10<sup>6</sup> 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).