

For Research Use Only

# FMR1 Polyclonal antibody

Catalog Number: 13755-1-AP

Featured Product

11 Publications



## Basic Information

### Catalog Number:

13755-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 240 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### 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:

59-72 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

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

IHC 1:200-1:800

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

### Positive Controls:

**WB** : K-562 cells, mouse brain tissue, mouse thymus tissue, Jurkat cells, HeLa cells, HEK-293 cells

**IP** : HeLa cells,

**IHC** : human colon tissue, human liver tissue, human colon cancer tissue, human gliomas tissue

**IF/ICC** : HepG2 cells, Hela cells

**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
Yuhan Hu	36347844	Cell Death Dis	WB, IHC
Yu Men	35351128	Cancer Cell Int	WB
Olga Gourdomichali	35205152	Biology (Basel)	WB

## 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

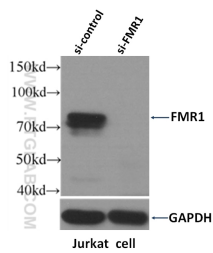
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

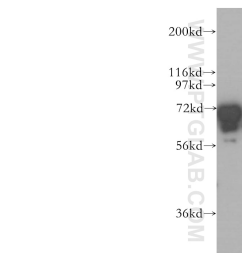
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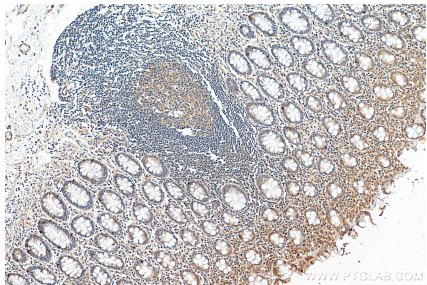
Selected Validation Data



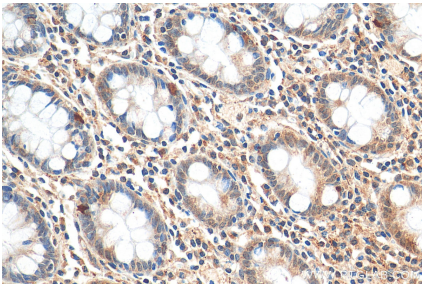
WB result of FMR1 antibody (13755-1-AP, 1:1500) with si-Control and si-FMR1 transfected Jurkat cells. FMR1 gene has many isoforms with MW 59-72 kDa.



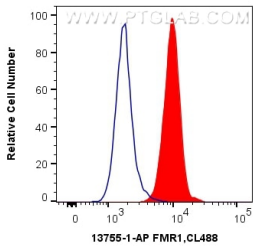
K-562 cells were subjected to SDS PAGE followed by western blot with 13755-1-AP (FMRP antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



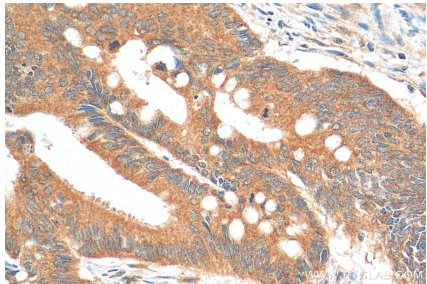
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 13755-1-AP (FMR1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



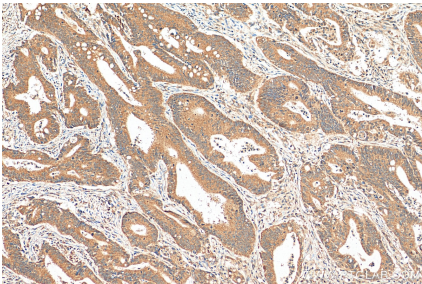
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 13755-1-AP (FMR1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



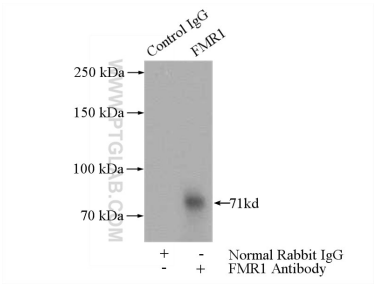
1X10<sup>6</sup> Jurkat cells were intracellularly stained with 0.4 ug Anti-Human FMR1 (13755-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



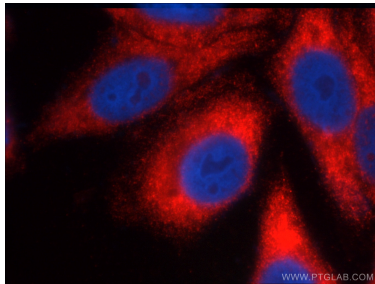
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 13755-1-AP (FMR1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 13755-1-AP (FMR1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-FMR1 (IP:13755-1-AP, 4ug; Detection:13755-1-AP 1:1000) with HeLa cells lysate 2800ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 13755-1-AP (FMRP antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).