For Research Use Only

FMR1 Polyclonal antibody

Catalog Number:13755-1-AP Featured Product 8 Publications

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Basic Information

Catalog Number:
13755-1-AP

Size:
500 μg/ml

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 1:50-1:500

Applications

Tested Applications:
FC, IF/ICC, IHC, IP, WB, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human, mouse

Cited Species:
human

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 : 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 : HepG2 cells, Hela cells

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 reperss the mRNA. It also has a role in the transport of mRNA from the nucleus to the cytoplasm. FMR1 exists several isforms and the molecular weight of FMR1 is about 59-72 kDa.

Notable Publications

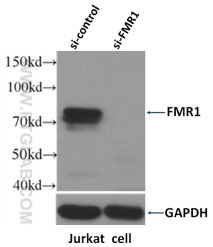
Author	Pubmed ID	Journal	Application
Yuhan Hu	36347844	Cell Death Dis	WB,IHC
Yu Men	35351128	Cancer Cell Int	WB
Olga Gourdomichali	35205152	Biology (Basel)	WB

Storage

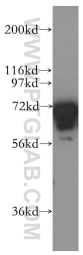
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

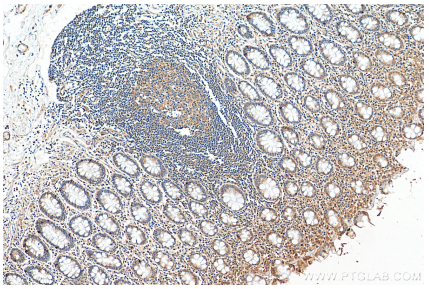
Selected Validation Data



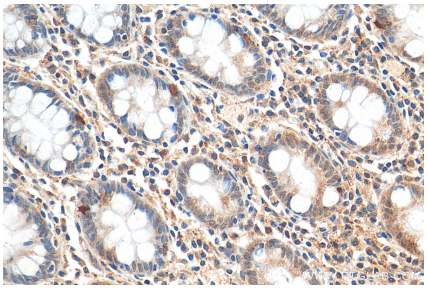
WB result of FMR1 antibody (13755-1-AP, 1:1500) with si-Control and si-FMR1 transfected Jurkat cells. FMR1 gene has many isoforms with MW 59-72 kDa.



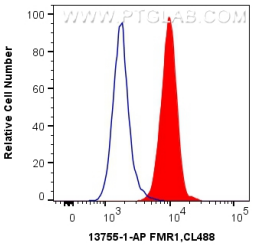
K-562 cells were subjected to SDS PAGE followed by western blot with 13755-1-AP (FMRP antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



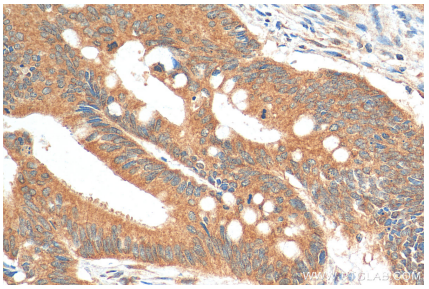
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 13755-1-AP (FMR1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



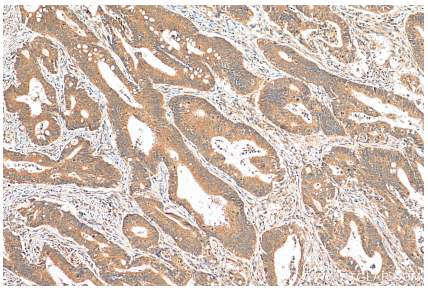
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 13755-1-AP (FMR1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



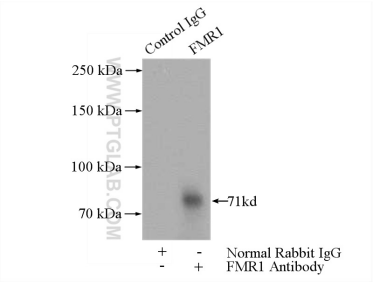
1X10^6 Jurkat cells were intracellularly stained with 0.4 ug Anti-Human FMR1 (13755-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



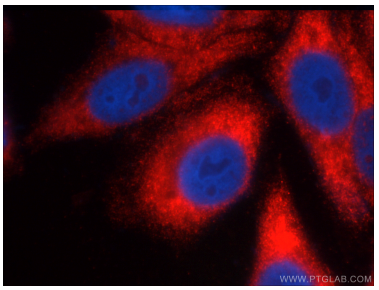
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 13755-1-AP (FMR1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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