

For Research Use Only

MPP8 Polyclonal antibody

Catalog Number: 16796-1-AP

Featured Product

28 Publications



Basic Information

Catalog Number:

16796-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop and 307 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG10268

GenBank Accession Number:

BC003542

GeneID (NCBI):

54737

UNIPROT ID:

Q99549

Full Name:

M-phase phosphoprotein 8

Calculated MW:

860 aa, 97 kDa

Observed MW:

97-105 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

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

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, ChIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB: HEK-293 cells, HeLa cells, HepG2 cells, MCF-7 cells, U-251 cells, NIH/3T3 cells, mouse brain tissue, rat brain tissue

IP: HEK-293 cells,

IF/ICC: U2OS cells,

Background Information

The M-phase phosphoprotein 8 (MPP8) was firstly identified to coimmunoprecipitate with the RanBPM-comprised large protein complex [PMID:19956676]. It also binds to methylated H3K9 and recruited the H3K9 methyltransferases GLP and ESET, as well as DNA methyltransferase 3A (DNMT3A) to the promoter of the E-cadherin gene, a key regulator of tumor cell growth and epithelial-to-mesenchymal transition (EMT) [PMID:18726070]. This binding event of MPP8-H3K9me modulates the expression of E-cadherin, a key regulator of cell-cell adhesion with implications in embryonic development, tissue morphogenesis and homeostasis, together with H3K9 methyltransferases GLP and ESET and DNA methyltransferase 3a (Dnmt3a) [PMID: 18726070].

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------------|-----------|-----------------------|--------------|
| Paola Cruz-Tapias | 31557926 | Genes (Basel) | WB, IP, ChIP |
| Leonid Yurkovetskiy | 30297740 | Nat Microbiol | WB |
| Takeshi Tsusaka | 30286792 | Epigenetics Chromatin | 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

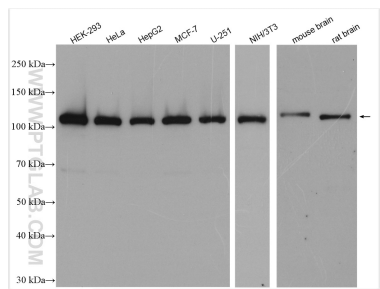
For technical support and original validation data for this product please contact:

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

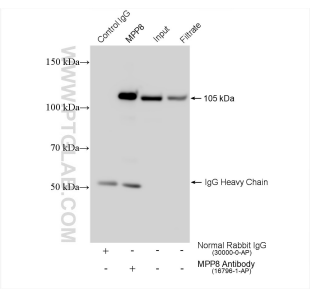
E: proteintech@ptglab.com
W: ptglab.com

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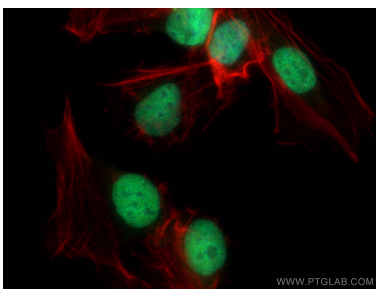
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16796-1-AP (MPP8 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



IP result of anti-MPP8 (IP:16796-1-AP, 4ug; Detection:16796-1-AP 1:20000) with HEK-293 cells lysate 1400 ug.



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using MPP8 antibody (16796-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).