

For Research Use Only

# MPP8 Polyclonal antibody

Catalog Number: 16796-1-AP

Featured Product

23 Publications



## Basic Information

**Catalog Number:**

16796-1-AP

**Size:**

700 µg/ml

**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 µg for 1.0-3.0 mg of total protein lysate

IF 1:50-1:500

## Applications

**Tested Applications:**

IF/ICC, IP, WB, ELISA

**Cited Applications:**

WB, IP, IF, IHC, 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:** 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

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

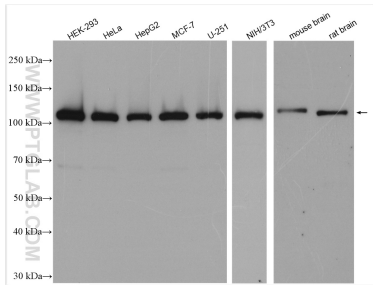
T: 4006900926

E: Proteintech-CN@ptglab.com

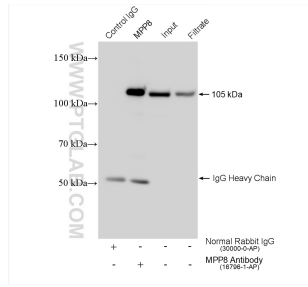
W: ptgcn.com

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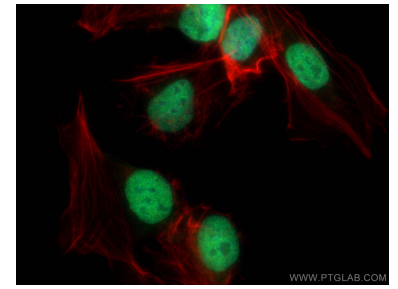
## Selected Validation Data



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 AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).