

For Research Use Only

HP1BP3 Polyclonal antibody

Catalog Number: 24556-1-AP **1 Publications**



Basic Information

Catalog Number:

24556-1-AP

Size:

150ul , Concentration: 850 µg/ml by Nanodrop and 420 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG18709

GenBank Accession Number:

BC045660

GeneID (NCBI):

50809

UNIPROT ID:

Q55S15

Full Name:

heterochromatin protein 1, binding protein 3

Calculated MW:

553 aa, 61 kDa

Observed MW:

70-75 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

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

IF 1:200-1:800

Applications

Tested Applications:

IF, IP, WB, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse

Cited Species:

human

Positive Controls:

WB : mouse thymus tissue, HeLa cells, MCF-7 cells

IP : HeLa cells,

IF : HeLa cells,

Background Information

Heterochromatin protein 1 binding protein 3(HP1BP3) associates with chromatin throughout the cell cycle and is required to maintain higher order chromatin structure during metaphase. HP1BP3 as a novel modulator of cognitive aging using a genetically diverse population of mice and confirm that HP1BP3 protein levels are significantly reduced in the hippocampi of cognitively impaired elderly humans relative to cognitively intact controls. Double-band staining is typical of HP1BP3 expression, indicative of multiple splice variants present in brain tissue.

Notable Publications

Author	Pubmed ID	Journal	Application
Sarah M Neuner	27460150	Neurobiol Aging	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

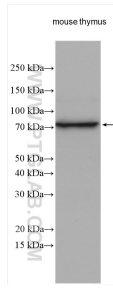
For technical support and original validation data for this product please contact:

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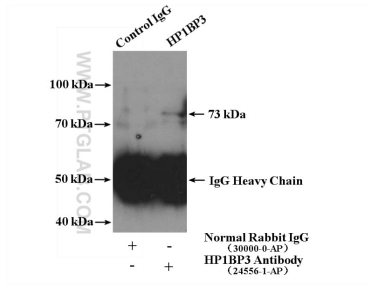
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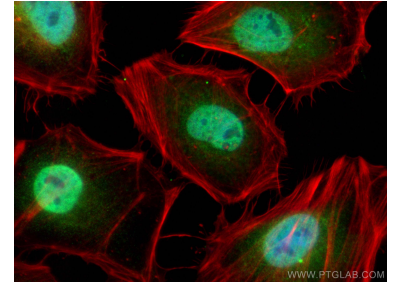
Selected Validation Data



Mouse thymus lysates were subjected to SDS PAGE followed by western blot with 24556-1-AP (HP1BP3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-HP1BP3 (IP:24556-1-AP, 4ug; Detection:24556-1-AP 1:300) with HeLa cells lysate 3200ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using HP1BP3 antibody (24556-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).