

For Research Use Only

AUP1 Polyclonal antibody

Catalog Number: 13726-1-AP

7 Publications



Basic Information

Catalog Number:

13726-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4680

GenBank Accession Number:

BC033646

GeneID (NCBI):

550

UNIPROT ID:

Q9Y679

Full Name:

ancient ubiquitous protein 1

Calculated MW:

416 aa, 45 kDa

Observed MW:

40 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

IHC: 1:50-1:500

IF/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

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, HEK-293 cells, Jurkat cells

IP : HEK-293 cells,

IHC : mouse brain tissue,

IF/ICC : A431 cells,

Background Information

AUP1 (Ancient ubiquitous protein 1) is a protein associated with lipid metabolism, which is widely expressed on the surface of ER and Lipid droplets, involved in the degradation of misfolded proteins through autophagy (PMID: 37029364). In addition, AUP1 also controls lipid synthesis as it induces ubiquitination and the subsequent degradation of several key regulators of lipid biosynthesis, such as the cholesterol biosynthetic enzyme 3-hydroxy-3-methylglutaryl-coenzyme A reductase (PMID: 28330944).

Notable Publications

Author	Pubmed ID	Journal	Application
Milton To	27881664	Mol Biol Cell	WB
Edmond Y Huang	29514927	Mol Biol Cell	WB
Dara E Leto	30581143	Mol Cell	

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

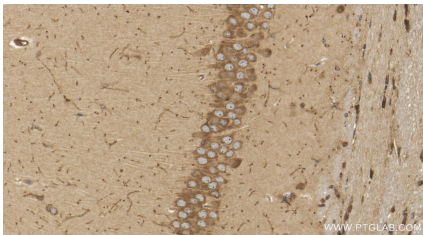
For technical support and original validation data for this product please contact:

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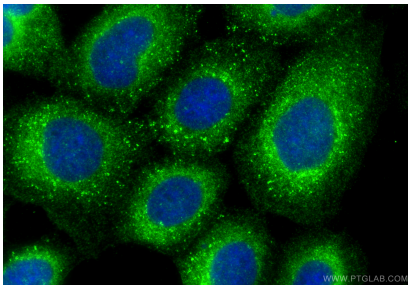
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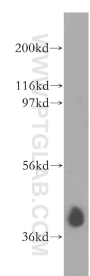
Selected Validation Data



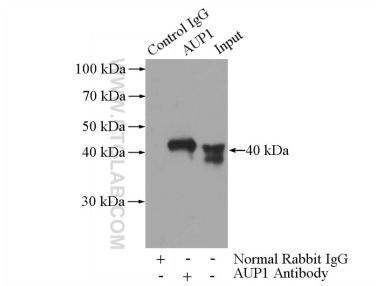
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13726-1-AP (AUP1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using AUP1 antibody (13726-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



K-562 cells were subjected to SDS PAGE followed by western blot with 13726-1-AP (AUP1 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



IP result of anti-AUP1 (IP:13726-1-AP, 3ug; Detection:13726-1-AP 1:500) with HEK-293 cells lysate 880ug.