For Research Use Only

AP3B1 Polyclonal antibody

Catalog Number:13384-1-AP Featured Product 16 Publications

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Basic Information

Catalog Number:
13384-1-AP

Size:
600 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4225

GenBank Accession Number:
BC038444

GeneID (NCBI):
8546

UNIPROT ID:
O00203

Full Name:
adaptor-related protein complex 3, beta 1 subunit

Calculated MW:
1094 aa, 121 kDa

Observed MW:
140 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 1:50-1:500

Applications

Tested Applications:
IHC, IP, WB, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

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 : A431 cells, mouse thymus tissue, COLO 320 cells, HeLa cells, HepG2 cells, SKOV-3 cells

IP : COLO 320 cells,

IHC : rat brain tissue,

Background Information

AP3B1 is the 140-kDa β 3A subunit of the adaptor-related protein complex-3 (AP-3), a ubiquitous heterotetrameric complex that is localized to the trans-Golgi network and endosomes and is involved in protein trafficking to lysosomes or specialized endosomal-lysosomal organelles (PMID: 9182526; 9545220). This complex is composed of two larger subunits (δ and β 3A or β 3B), a medium subunit (μ 3A or μ 3B), and a small subunit (σ 3A or σ 3B). The absence of the β 3A subunit (AP3B1) results in the loss of stability of AP3 and leads to degradation of μ 3A, to which β 3A is directly bound, while the other subunits are variably affected (PMID: 16507770). AP3B1 contains three main domains: the N-terminal head domain, the hinge, and the C-terminal ear domain. It has been reported as a target of IP(7)-mediated pyrophosphorylation (PMID: 19934039). Defects in AP3B1 are the cause of Hermansky-Pudlak syndrome type 2 (HPS2) (PMID: 10024875; 16507770).

Notable Publications

Author	Pubmed ID	Journal	Application
Weina Sun	25210190	J Virol	WB,IF
Joshi Stephen	28296950	PLoS One	WB
Maria B Bagh	28266544	Nat Commun	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:
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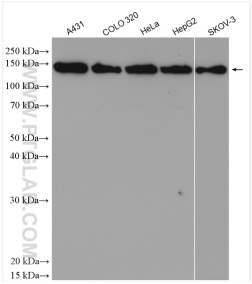
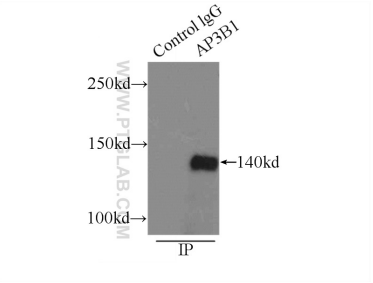
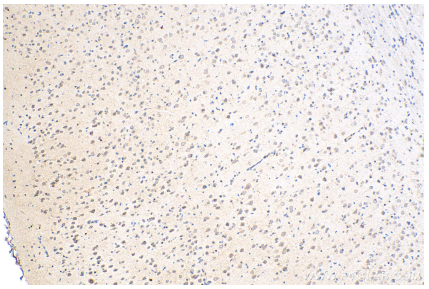
Selected Validation Data



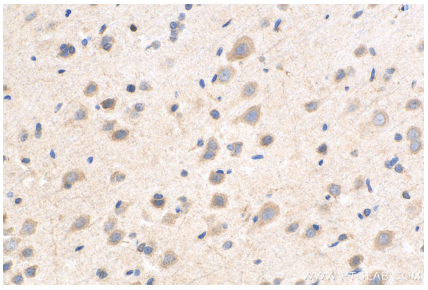
Various lysates were subjected to SDS PAGE followed by western blot with 13384-1-AP (AP3B1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



IP result of anti-AP3B1 (IP:13384-1-AP, 3ug; Detection:13384-1-AP 1:500) with COLO 320 cells lysate 2500ug.



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 13384-1-AP (AP3B1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 13384-1-AP (AP3B1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).