For Research Use Only

AP3B1 Polyclonal antibody

Catalog Number:13384-1-AP Featured Product 13 Publications

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Basic Information

Catalog Number:
13384-1-AP

Size:
150ul , Concentration: 600 μg/ml by Nanodrop and 300 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4225

GenBank Accession Number:
BC038444

GeneID (NCBI):
8546

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 1:500-1:2000
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB

Applications

Tested Applications:
IP, WB,ELISA

Cited Applications:
IF, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Positive Controls:

WB : mouse thymus tissue, COLO 320 cells

IP : COLO 320 cells,

Background Information

AP3B1 is the 140-kDa β3A 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 lager subunits (δ and β3A or β3B), a medium subunit (μ3A or μ3B), and a small subunit (σ3A or σ3B). The absence of the β3A subunit (AP3B1) results in the loss of stability of AP3 and leads to degradation of μ3A, to which β3A 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:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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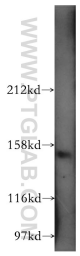
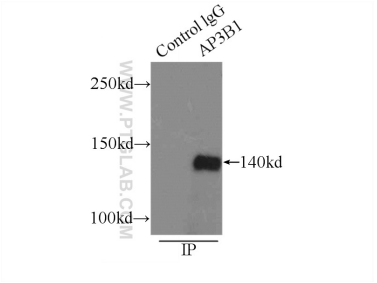
Selected Validation Data



mouse thymus tissue were subjected to SDS PAGE followed by western blot with 13384-1-AP (AP3B1 antibody) at dilution of 1:500 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.