

For Research Use Only

AP3B1 Polyclonal antibody

Catalog Number: 13384-1-AP

Featured Product

17 Publications



Basic Information

Catalog Number:	13384-1-AP	GenBank Accession Number:	BC038444	Purification Method:	Antigen affinity purification
Size:	150ul, Concentration: 600 ug/ml by Nanodrop;	GeneID (NCBI):	8546	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
Source:	Rabbit	UNIPROT ID:	O00203		
Isotype:	IgG	Full Name:	adaptor-related protein complex 3, beta 1 subunit		
Immunogen Catalog Number:	AG4225	Calculated MW:	1094 aa, 121 kDa		
		Observed MW:	140 kDa		

Applications

Tested Applications:	WB, IP, IHC, ELISA	Positive Controls:	WB : A431 cells, mouse thymus tissue, COLO 320 cells, HeLa cells, HepG2 cells, SKOV-3 cells
Cited Applications:	WB, IF	IP :	COLO 320 cells,
Species Specificity:	human, mouse, rat	IHC :	rat brain tissue,
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			

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 larger subunits (δ and β3A or β3B), a medium subunit (μ3A or μ3B), and a small subunit (α3A or α3B). 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

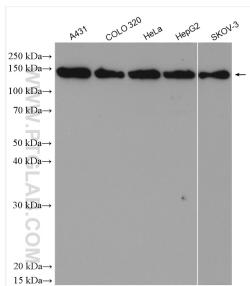
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
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in USA), or 1(312) 455-8498 (outside USA)

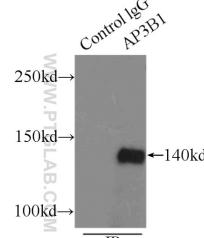
E: proteintech@ptglab.com
W: ptglab.com

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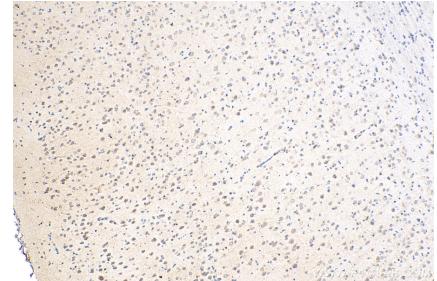
Selected Validation Data



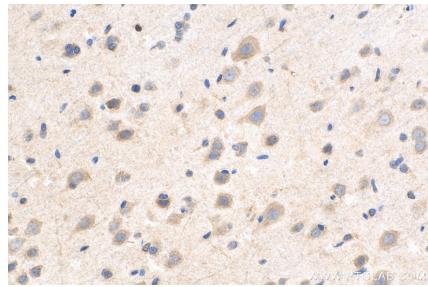
Various lysates were subjected to SDS PAGE followed by western blot with 13384-1-AP (AP3B1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



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).