

## AP3B1 Polyclonal Antibody

Catalog number: 13384-1-AP

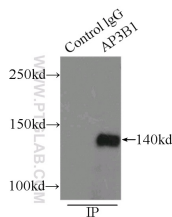
Size: 45 µg/150 µl

Source: Rabbit

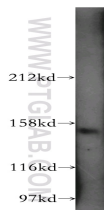
Isotype: IgG

Synonyms:

AP3B1; ADTB3, ADTB3A, AP 3 complex subunit beta 1, AP3B1, Beta 3A adaptin, HPS, HPS2, PE



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



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

### Background

AP3B1 is the 140-kDa  $\beta$ 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 large subunits ( $\delta$  and  $\beta$ 3A or  $\beta$ 3B), a medium subunit ( $\mu$ 3A or  $\mu$ 3B), and a small subunit ( $\sigma$ 3A or  $\sigma$ 3B). The absence of the  $\beta$ 3A subunit (AP3B1) results in the loss of stability of AP3 and leads to degradation of  $\mu$ 3A, to which  $\beta$ 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).

### Applications

Tested applications:	ELISA, WB, IP
Cited applications:	IF, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human
Calculated AP3B1 MW:	1094aa, 121 kDa
Observed AP3B1 MW:	140 kDa
Positive WB detected in	Mouse thymus tissue, COLO 320 cells
Positive IP detected in	COLO 320 cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:200-1:2000

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

Immunogen:	Ag4225
GenBank accession number:	BC038444
Gene ID (NCBI):	8546
Full name:	Adaptor-related protein complex 3, beta 1 subunit

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.