**AP3B1**

**Polyclonal ANTIBODY**

**Catalog Number:** 13384-1-AP

**Basic Information**

- **Catalog Number:** 13384-1-AP
- **Size:** 45 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG4225
- **GenBank Accession Number:** BC038644
- **GeneID (NCBI):** 8546
- **Full Name:** adaptor-related protein complex 3, beta 1 subunit
- **Calculated MW:** 1094aa, 121 kDa
- **Observed MW:** 140 kDa

**Recommended Dilutions:**

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

**Applications**

- **Tested Applications:** IP, WB, ELISA
- **Cited Applications:** IF, WB
- **Species Specificity:** human, mouse, rat
- **Species:** human, mouse

**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 (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 IP7-mediated pyrophosphorylation (PMID: 19934039). Defects in AP3B1 are the cause of Hermansky-Pudlak syndrome type 2 (HPS2) (PMID: 10024875; 16507770).

**Notable Publications**

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<td>Joshi Stephen</td>
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<td>Minta B Bagh</td>
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**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:** Aliquoting is unnecessary for -20°C storage.

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

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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.