

**Anti-AP3D1 (GOAT) Antibody**  
**AP3D1 Antibody**  
**Catalog # ASR5089****Specification**

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**Anti-AP3D1 (GOAT) Antibody - Product Information**

Host	Goat
Conjugate	Unconjugated
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, E, IP, I, LCI
Application Note	This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 130 kDa in size corresponding to AP3D1 by western blotting in the appropriate cell lysate or extract. Multiple isoforms exist for this protein.
Physical State	Liquid (sterile filtered)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	This affinity purified antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near aa 675-700 of Human AP3D1.
Preservative	0.01% (w/v) Sodium Azide

**Anti-AP3D1 (GOAT) Antibody - Additional Information****Gene ID** 8943**Other Names**  
8943**Purity**

This affinity purified antibody is directed against human AP3D1. The product was affinity purified from antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from human, chimpanzee and chicken based on 100% homology for the immunogen sequence. Cross reactivity with AP3D1 protein from mouse, rat, dog and cow may occur as sequence homology varies by only one amino acid residue in this sequence as indicated by BLAST analysis. Reactivity with AP3D1 proteins from other sources is not known.

**Storage Condition**

Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after

standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

#### Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

### Anti-AP3D1 (GOAT) Antibody - Protein Information

**Name** AP3D1

#### Function

Part of the AP-3 complex, an adaptor-related complex which is not clathrin-associated. The complex is associated with the Golgi region as well as more peripheral structures. It facilitates the budding of vesicles from the Golgi membrane and may be directly involved in trafficking to lysosomes. Involved in process of CD8+ T- cell and NK cell degranulation (PubMed:<a href="http://www.uniprot.org/citations/26744459" target="\_blank">26744459</a>). In concert with the BLOC-1 complex, AP-3 is required to target cargos into vesicles assembled at cell bodies for delivery into neurites and nerve terminals (By similarity).

#### Cellular Location

Cytoplasm. Golgi apparatus membrane; Peripheral membrane protein; Cytoplasmic side

#### Tissue Location

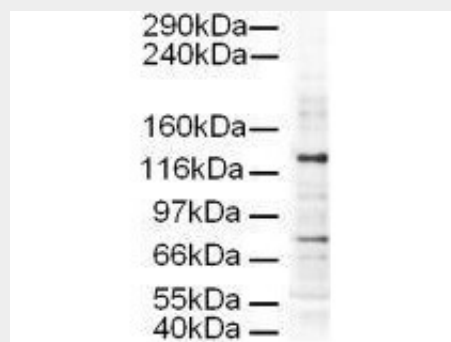
Present in all adult tissues examined with the highest levels in skeletal muscle, heart, pancreas and testis

### Anti-AP3D1 (GOAT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-AP3D1 (GOAT) Antibody - Images



Western blot using Rockland's Affinity Purified anti-AP3D1 antibody shows detection of a 130-kDa band corresponding to Human AP3D1 in a HeLa whole cell lysate (p/n W09-000-364). The lower molecular weight band most likely represents non-specific binding. Approximately 20 µg of lysate was run on a SDS-PAGE and transferred onto nitrocellulose followed by reaction with a 1:500 dilution of anti-AP3D1 antibody. Detection occurred using a 1:5,000 dilution of HRP-labeled Rabbit anti-Goat IgG (p/n 605-4302) for 1 hour at room temperature. A chemiluminescence system was used for signal detection (Roche) using a 30-sec exposure time.

#### **Anti-AP3D1 (GOAT) Antibody - Background**

AP3D1 (also known as Delta-adaptin 3, AP-3 complex delta subunit and Delta-adaptin) is a subunit of the AP3 adaptor-like complex, which is not associated with clathrin. The AP3D1 subunit is implicated in intracellular biogenesis and trafficking of pigment granules and possibly platelet dense granules and neurotransmitter vesicles.