Datasheet for ABIN968477

anti-AP3D1 antibody (AA 627-731)

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Overview

Quantity:	150 µg
Target:	AP3D1
Binding Specificity:	AA 627-731
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This AP3D1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human Adaptin delta aa. 627-731
Clone:	18-Adaptin delta
Isotype:	IgG1
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

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Target Details

Target:	AP3D1
Alternative Name:	Adaptin delta (AP3D1 Products)
Background:	Sorting of integral membrane proteins at various stages of the endocytic and secretory pathways is mediated by vesicular trafficking between a variety of organelles. Two sorting signals are tyrosine-based and dileucine-based signals that interact with heterotetrameric adaptor protein complexes (AP-1 through AP-4), which are associated with the vesicle coats. These coatomers contain two large adaptin proteins (gamma, alpha, delta, epsilon and beta1, beta2, beta3, beta4, respectively) that are noncovalently linked to one medium chain (μ1, μ2, μ3, or μ4) and one small chain (sigma1, sigma2, sigma3, or sigma4). The AP-1 and AP-3 complexes are involved in protein sorting from the TGN and endosomes, while AP-2 adaptor complexes are involved in clathrin-mediated endocytosis. In the AP-3 complex, adaptin delta contains an N-terminal head domain that has 25% identity with adaptins alpha and gamma, while its C-terminal hinge and ear domains are two-fold larger and more divergent as compared to the same domains in adaptins alpha and gamma. Adaptin delta is widely expressed and its mutation results in protein storage deficiencies within lysosomal-related organelles in platelets, melansomes, and synaptic vesicles. This antibody is routinely tested by western blot analysis.
Molecular Weight:	160 kDa

Application Details

Comment:	Related Products: ABIN968535, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

Product cited in:	Blumstein, Faundez, Nakatsu, Saito, Ohno, Kelly: "The neuronal form of adaptor protein-3 is required for synaptic vesicle formation from endosomes." in: **The Journal of neuroscience : the**

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Publications

official journal of the Society for Neuroscience, Vol. 21, Issue 20, pp. 8034-42, (2001) (PubMed).

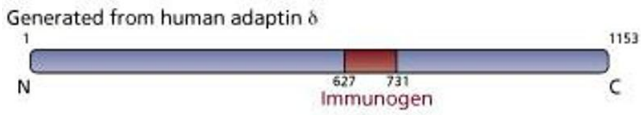
Zhen, Jiang, Feng, Bright, Peden, Seymour, Novak, Elliott, Gorin, Robinson, Swank: "Abnormal expression and subcellular distribution of subunit proteins of the AP-3 adaptor complex lead to platelet storage pool deficiency in the pearl mouse." in: **Blood**, Vol. 94, Issue 1, pp. 146-55, (1999) (PubMed).

Le Borgne, Alconada, Bauer, Hoflack: "The mammalian AP-3 adaptor-like complex mediates the intracellular transport of lysosomal membrane glycoproteins." in: **The Journal of biological chemistry**, Vol. 273, Issue 45, pp. 29451-61, (1998) (PubMed).

Ooi, Moreira, DellAngelica, Poy, Wassarman, Bonifacino: "Altered expression of a novel adaptin leads to defective pigment granule biogenesis in the Drosophila eye color mutant garnet." in: **The EMBO journal**, Vol. 16, Issue 15, pp. 4508-18, (1997) (PubMed).

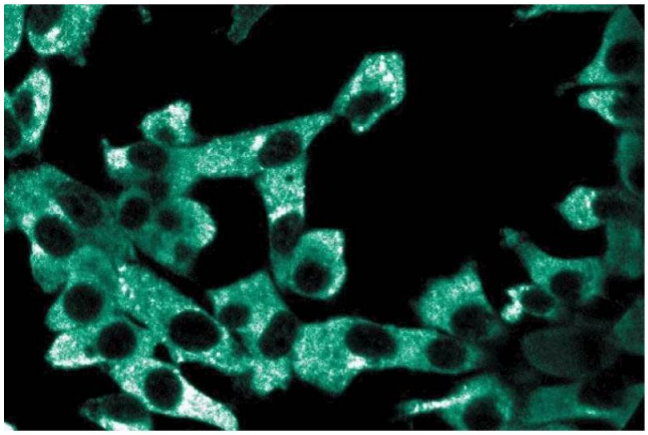
Images

Image 1.



Western Blotting

Image 2. Western blot analysis of Adaptin delta on a HeLa lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the anti- Adaptin delta antibody.



Immunofluorescence

Image 3. Immunoflourescence staining of ES2 cells.

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