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Datasheet for ABIN967993

anti-SNAP91 antibody (AA 706-896)

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Overview

Quantity:	50 µg
Target:	SNAP91
Binding Specificity:	AA 706-896
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SNAP91 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Immunogen:	Rat AP180 aa. 706-896
Clone:	34-AP180
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Human
Characteristics:	<ol style="list-style-type: none">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.

Product Details

Purification: The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target: SNAP91

Alternative Name: AP180 ([SNAP91 Products](#))

Background: AP180, also known as AP-3, F1-20, NP185, and pp155, is one of four assembly proteins which are involved in the organization and assembly of clathrin triskelia in clathrin-coated vesicles. Two of these proteins, AP-1 and AP-2, exist as tetramers, while AP180 and auxilin are monomeric assembly proteins. The clathrin binding potential of AP180 is defined by several regions of the molecule, including the 30 kDa N-terminal domain, a central domain, and a 58 kDa C-terminal domain. Although clathrin binding occurs throughout the molecule, only the C-terminal domain is associated with both binding of clathrin and assembly of clathrin cages. The highly acidic central domain, which contains an uncharged alanine-rich segment, is thought to impart the irregular physical properties to this protein. AP180 is the only clathrin assembly protein specific for synapses and is thought to be involved in synaptic vesicle biogenesis and recycling. Furthermore, AP180 is bound by inositol-6-phosphate which has been shown to be closely regulated in neuronal cells by external stimuli.

Synonyms: AP-3, F1-20, NP185, and pp155

Molecular Weight: 180 kDa

Application Details

Comment: Related Products: ABIN968545, ABIN967389

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤ 0.09 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Handling

Storage Comment: Store undiluted at -20° C.

Publications

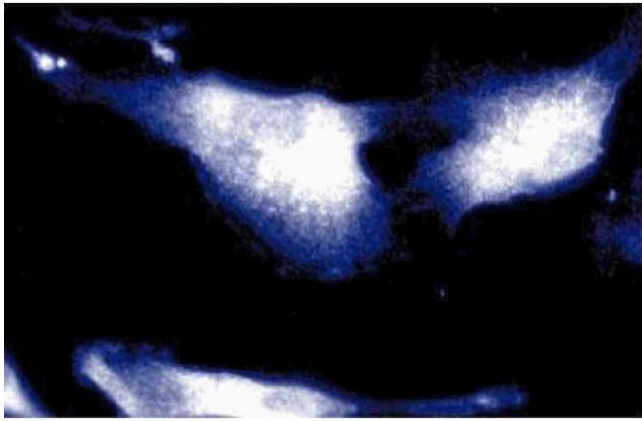
- Product cited in: Kalthoff, Groos, Kohl, Mahrhold, Ungewickell: "Clint: a novel clathrin-binding ENTH-domain protein at the Golgi." in: **Molecular biology of the cell**, Vol. 13, Issue 11, pp. 4060-73, (2002) ([PubMed](#)).
- Drake, Traub: "Interaction of two structurally distinct sequence types with the clathrin terminal domain beta-propeller." in: **The Journal of biological chemistry**, Vol. 276, Issue 31, pp. 28700-9, (2001) ([PubMed](#)).
- Traub, Downs, Westrich, Fremont: "Crystal structure of the alpha appendage of AP-2 reveals a recruitment platform for clathrin-coat assembly." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 96, Issue 16, pp. 8907-12, (1999) ([PubMed](#)).
- Ye, Lafer: "Clathrin binding and assembly activities of expressed domains of the synapse-specific clathrin assembly protein AP-3." in: **The Journal of biological chemistry**, Vol. 270, Issue 18, pp. 10933-9, (1995) ([PubMed](#)).
- Morris, Schröder, Plessmann, Weber, Ungewickell: "Clathrin assembly protein AP180: primary structure, domain organization and identification of a clathrin binding site." in: **The EMBO journal**, Vol. 12, Issue 2, pp. 667-75, (1993) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of AP180 on a rat cerebrum lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-AP180 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of human endothelial cells.

Image 3.

Generated from rat AP180



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN967993.