Technical Data Sheet

Purified Mouse Anti- APP-BP1

Product Information

Material Number: 611865

Alternate Name: Amyloid Precursor Protein-Binding Protein 1

 Size:
 150 μg

 Concentration:
 250 μg/ml

 Clone:
 20/APP-BP1

Immunogen: Human APP-BP1 aa. 348-464

Isotype:Mouse IgG2aReactivity:QC Testing: Mouse

Tested in Development: Human, Dog, Rat

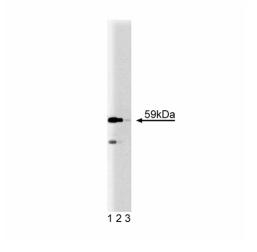
Target MW: 59 kDa

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

azide.

Description

Amyloid precursor protein (APP) gene encodes multiple APPs ranging from 695 to 770 amino acids. These proteins are processed into β-Amyloid peptides (39-43 amino acids), which form abnormal plaques in the cerebral cortex and blood vessel walls during Alzheimer's disease. The transmembrane form of APP is a putative cell surface receptor that possesses neurite-promoting activity, co-localizes with the plaques found in Alzheimer's disease, and is involved in synaptic vesicle recycling. APP binding protein 1 (APP-BP1) interacts with the C-terminus of APP, and is a relative of the ubiquitin-activating enzymes (E1). The structure of APP-BP1 includes a human Uba3 binding site (UBS) at amino acids 443 to 479. This site may be important for APP-BP1 regulation of the cell cycle through interactions with ubiquitinylation-related pathways. Transfection of APP-BP1 in cells with a ts41 mutation suppresses the abnormal S-phases observed in these cells in a hUba3- and hUbc12-dependent manner. In addition, APP-BP1 has been implicated in ubiquitinylation-dependent apoptosis in neurons. Thus, APP-BP1 may be a multi-functional APP-binding protein that regulates cell cycle dynamics.



Western blot analysis of APP-BP1 on a RSV-3T3 cell lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti- APP-BP1 antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20°C.

Application Notes

Application

rippication				
	Western blot	Routinely Tested		
	Immunofluorescence	Not Recommended		

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611865 Rev. 1 Page 1 of 2

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols 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.

References

Chen Y, McPhie DL, Hirschberg J, Neve RL. The amyloid precursor protein-binding protein APP-BP1 drives the cell cycle through the S-M checkpoint and causes apoptosis in neurons. *J Biol Chem.* 2000; 275(12):8929-8935.(Biology)

Chow N, Korenberg JR, Chen XN, Neve RL. APP-BP1, a novel protein that binds to the carboxyl-terminal region of the amyloid precursor protein. *J Biol Chem.* 1996; 271(19):11339-11346.(Biology)

Hori T, Osaka F, Chiba T. Covalent modification of all members of human cullin family proteins by NEDD8. Oncogene. 1999; 18(48):6829-6834.(Biology)

611865 Rev. 1 Page 2 of 2