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PAT1(APPBP2) Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP7274c

Specification

PAT1(APPBP2) Antibody (Center) Blocking Peptide - Product Information

Primary Accession	Q92624
Other Accession	NP_006371

PAT1(APPBP2) Antibody (Center) Blocking Peptide - Additional Information

Gene ID 10513

Other Names
Amyloid protein-binding protein 2, Amyloid beta precursor protein-binding protein 2, APP-BP2, Protein interacting with APP tail 1, APPBP2, KIAA0228, PAT1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7274c was selected from the APPBP2 region of human PAT1(APPBP2). A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PAT1(APPBP2) Antibody (Center) Blocking Peptide - Protein Information

Name APPBP2 {ECO:0000303|PubMed:26138980, ECO:0000312|HGNC:HGNC:622}

Function
Substrate-recognition component of a Cul2-RING (CRL2) E3 ubiquitin-protein ligase complex of the DesCEND (destruction via C-end degrons) pathway, which recognizes a C-degron located at the extreme C terminus of target proteins, leading to their ubiquitination and degradation (PubMed:29779948, PubMed:29775578). The C-degron recognized by the DesCEND pathway is usually a motif of less than ten residues and can be present in full-length proteins, truncated proteins or proteolytically cleaved forms (PubMed:29779948, PubMed:29775578). The CRL2(APPBP2) complex specifically recognizes proteins with a -Arg-Xaa- Xaa-Gly degron at the

C-terminus, leading to their ubiquitination and degradation (PubMed:29779948, PubMed:29775578). The CRL2(APPBP2) complex mediates ubiquitination and degradation of truncated SELENOV selenoproteins produced by failed UGA/Sec decoding, which end with a -Arg-Xaa-Xaa-Gly degron (PubMed:26138980). May play a role in intracellular protein transport: may be involved in the translocation of APP along microtubules toward the cell surface (PubMed:9843960).

Cellular Location
Nucleus. Cytoplasm, cytoskeleton. Membrane; Peripheral membrane protein. Note=Associated with membranes and microtubules.

PAT1(APPBP2) Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

PAT1(APPBP2) Antibody (Center) Blocking Peptide - Images

PAT1(APPBP2) Antibody (Center) Blocking Peptide - Background

APPBP2 interacts with microtubules and is functionally associated with beta-amyloid precursor protein transport and/or processing. The beta-amyloid precursor protein is a cell surface protein with signal-transducing properties, and it is thought to play a role in the pathogenesis of Alzheimer's disease. This protein has been found to be highly expressed in breast cancer.

PAT1(APPBP2) Antibody (Center) Blocking Peptide - References

Zheng,P., Proc. Natl. Acad. Sci. U.S.A. 95 (25), 14745-14750 (1998)