

**APPBP2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16727c****Specification**

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**APPBP2 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q92624](#)**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

**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.

**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:<a href="http://www.uniprot.org/citations/29779948" target="\_blank">29779948</a>, PubMed:<a href="http://www.uniprot.org/citations/29775578" target="\_blank">29775578</a>). 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:<a href="http://www.uniprot.org/citations/29779948" target="\_blank">29779948</a>, PubMed:<a href="http://www.uniprot.org/citations/29775578" target="\_blank">29775578</a>). 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:<a href="http://www.uniprot.org/citations/29779948" target="\_blank">29779948</a>, PubMed:<a href="http://www.uniprot.org/citations/29775578" target="\_blank">29775578</a>). The CRL2(APPBP2) complex mediates ubiquitination and degradation of truncated SELENOP selenoproteins produced by failed UGA/Sec decoding, which end with a -Arg-Xaa-Xaa-Gly degron (PubMed:<a href="http://www.uniprot.org/citations/26138980" target="\_blank">26138980</a>). May play a role in intracellular protein transport: may be involved in the translocation of APP along

microtubules toward the cell surface (PubMed:<a href="http://www.uniprot.org/citations/9843960" target="\_blank">9843960</a>).

**Cellular Location**

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

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

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

- [Blocking Peptides](#)

**APPBP2 Antibody (Center) Blocking Peptide - Images****APPBP2 Antibody (Center) Blocking Peptide - Background**

The protein encoded by this gene interacts with microtubules and is functionally associated with beta-amyloidprecursor protein transport and/or processing. The beta-amyloidprecursor protein is a cell surface protein with signal-transducingproperties, and it is thought to play a role in the pathogenesis ofAlzheimer's disease. This gene has been found to be highlyexpressed in breast cancer. Multiple polyadenylation sites havebeen found for this gene.

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

Venkatesan, K., et al. Nat. Methods 6(1):83-90(2009)Benboudjema, L., et al. J. Virol. 77(17):9192-9203(2003)Gao, Y., et al. Proc. Natl. Acad. Sci. U.S.A. 98(26):14979-14984(2001)Monni, O., et al. Proc. Natl. Acad. Sci. U.S.A. 98(10):5711-5716(2001)Barlund, M., et al. Cancer Res. 60(19):5340-5344(2000)