

**APPBP1 Antibody (N-term) Blocking Peptide**  
Synthetic peptide  
Catalog # BP7273d**Specification**

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**APPBP1 Antibody (N-term) Blocking Peptide - Product Information**

Primary Accession [O13564](#)  
Other Accession [NP\\_003896](#)

**APPBP1 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 8883

**Other Names**

NEDD8-activating enzyme E1 regulatory subunit, Amyloid beta precursor protein-binding protein 1, 59 kDa, APP-BP1, Amyloid protein-binding protein 1, Proto-oncogene protein 1, NAE1, APPBP1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7273d](/product/products/AP7273d) was selected from the N-term region of human APPBP1. 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.

**APPBP1 Antibody (N-term) Blocking Peptide - Protein Information**

Name NAE1

Synonyms APPBP1

**Function**

Regulatory subunit of the dimeric UBA3-NAE1 E1 enzyme. E1 activates NEDD8 by first adenylating its C-terminal glycine residue with ATP, thereafter linking this residue to the side chain of the catalytic cysteine, yielding a NEDD8-UBA3 thioester and free AMP. E1 finally transfers NEDD8 to the catalytic cysteine of UBE2M. Necessary for cell cycle progression through the S-M checkpoint. Overexpression of NAE1 causes apoptosis through deregulation of NEDD8 conjugation. The covalent attachment of NEDD8 to target proteins is known as 'neddylation' and the process is involved in the regulation of cell growth, viability and development.

**Cellular Location**

Cell membrane. Note=Colocalizes with APP in lipid rafts

**Tissue Location**

Ubiquitous in fetal tissues. Expressed throughout the adult brain.

**APPBP1 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**APPBP1 Antibody (N-term) Blocking Peptide - Images****APPBP1 Antibody (N-term) Blocking Peptide - Background**

APPBP1 binds to the beta-amyloid precursor protein. 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. In addition, this protein can form a heterodimer with UBE1C and bind and activate NEDD8, a ubiquitin-like protein. APPBP1 is required for cell cycle progression through the S/M checkpoint.

**APPBP1 Antibody (N-term) Blocking Peptide - References**

Chen,Y., J. Cell Biol. 163 (1), 27-33 (2003)Chen,Y., J. Neurochem. 85 (3), 801-809 (2003)Walden,H., Nature 422 (6929), 330-334 (2003)Chow,N., J. Biol. Chem. 271 (19), 11339-11346 (1996)