

NAE1 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13067c**Specification**

NAE1 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q13564](#)**NAE1 Antibody (Center) 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

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.

NAE1 Antibody (Center) 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.

NAE1 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

NAE1 Antibody (Center) Blocking peptide - Images

NAE1 Antibody (Center) Blocking peptide - Background

The protein encoded by this gene binds to the beta-amyloidprecursor protein. Beta-amyloid precursor protein is a cell surfaceprotein with signal-transducing properties, and it is thought toplay a role in the pathogenesis of Alzheimer's disease. Inaddition, the encoded protein can form a heterodimer with UBE1C andbind and activate NEDD8, a ubiquitin-like protein. This protein isrequired for cell cycle progression through the S/M checkpoint.Three transcript variants encoding different isoforms have beenfound for this gene.

NAE1 Antibody (Center) Blocking peptide - References

Jung, A.C., et al. Int. J. Cancer 126(8):1882-1894(2010)Park, Y., et al. Biochem. Biophys. Res. Commun. 374(2):294-298(2008)Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :Li, T., et al. Arch. Biochem. Biophys. 453(1):70-74(2006)Norman, J.A., et al. Biochemistry 45(9):3014-3019(2006)