

NCE2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP1070a**Specification**

NCE2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [O969M7](#)
Other Accession [NP_542409](#)

NCE2 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 140739

Other Names

NEDD8-conjugating enzyme UBE2F, 632-, NEDD8 carrier protein UBE2F, NEDD8 protein ligase UBE2F, NEDD8-conjugating enzyme 2, Ubiquitin-conjugating enzyme E2 F, UBE2F, NCE2

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1070a](/product/products/AP1070a) was selected from the N-term region of human NCE2. 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.

NCE2 Antibody (N-term) Blocking Peptide - Protein Information

Name UBE2F

Synonyms NCE2

Function

Accepts the ubiquitin-like protein NEDD8 from the UBA3-NAE1 E1 complex and catalyzes its covalent attachment to other proteins (PubMed: [19250909](http://www.uniprot.org/citations/19250909), PubMed: [23201271](http://www.uniprot.org/citations/23201271)). Together with the E3 ubiquitin ligase RNF7/RBX2, specifically neddylates cullin-5 (CUL5) (PubMed: [19250909](http://www.uniprot.org/citations/19250909), PubMed: [23201271](http://www.uniprot.org/citations/23201271), PubMed: [23300442](http://www.uniprot.org/citations/23300442)). Does not

neddylate CUL1, CUL2, CUL3, CUL4A or CUL4B (PubMed:19250909, PubMed:23201271). Mediates neddylation of the CUL9-RBX1 complex (PubMed:38605244).

Tissue Location

Widely expressed (at protein level).

NCE2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NCE2 Antibody (N-term) Blocking Peptide - Images**NCE2 Antibody (N-term) Blocking Peptide - Background**

Ubiquitin is covalently attached to target proteins by a multienzymatic system consisting of E1 (ubiquitin-activating), E2 (ubiquitin-conjugating), and E3 (ubiquitin-ligating) enzymes. NEDD8, a ubiquitin-like protein, is conjugated to proteins in a manner analogous to ubiquitylation. beta-amyloid precursor protein-binding protein-1 (APPBP1) can bind to NEDD8 in rabbit reticulocyte lysates. However, since APPBP1 shows similarity to only the N-terminal domain of an E1 enzyme, it must interact with a protein showing similarity to the C-terminal region of E1s. By searching sequence databases, a cDNAs encoding UBA3 was identified as the human homolog of yeast Uba3. The predicted 442-amino acid UBA3 protein shares 43% sequence identity with yeast Uba3. In vitro, UBA3 formed a complex with APPBP1 and a thioester linkage with NEDD8. APPBP1/UBA3 complex may function as an E1-like enzyme for the activation of NEDD8.

NCE2 Antibody (N-term) Blocking Peptide - References

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).