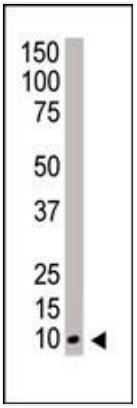
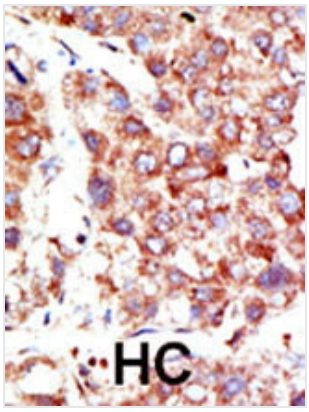
NEDD8 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NEDD8, Polyclonal Antibody
Full Product Name	NEDD8, NT (Ubiquitin-like Protein NEDD8, Neddylin, Neural Precursor Cell Expressed Developmentally Down-regulated Protein 8, NEDD-8) (AP)
Product Gene Name	anti-NEDD8 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human NEDD8.
Preparation and Storage	May be stored at 4 degree C for short-term only. Do not freeze alkaline phosphatase conjugates which could result in a substantial loss of enzymatic activity. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	12.8 kDa (113 aa), confirmed by MALDI-TOF.
OMIM	603171
3D Structure	ModBase 3D Structure for Q15843
Immunogen	Synthetic peptide selected from the N-terminal region of human NEDD8 (KLH).
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-NEDD8 antibody	Antibodies; Ubiquitin
Applications Tested/Suitable for anti-NEDD8 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-NEDD8 antibody	IHC: 1:50-1:100 ELISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-NEDD8 antibody	MBS6489550 is an antibody targeting NEDD8. Also known as NEDD8, NT (Ubiquitin-like Protein NEDD8, Neddylin, Neural Precursor Cell Expressed Developmentally Down-regulated Protein 8, NEDD-8) (AP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-NEDD8 antibody	1. Wu, K., et al., J. Biol. Chem. 278(31):28882-28891 (2003). 2. Bohnsack, R.N., et al., J. Biol. Chem. 278(29):26823-26830 (2003). 3. Fan, M., et al., Mol. Endocrinol. 17(3):356-365 (2003). 4. Walden, H., et al., Nature 422(6929):330-334 (2003). 5. Liu, J., et al., Mol. Cell 10(6):1511-1518 (2002).
Other Notes	Small volumes of anti-NEDD8 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-NEDD8 antibody
Western blot analysis of NEDD8 polyclonal antibody in HeLa cell lysate. NEDD8 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Immunohistochemistry (IHC) of anti-NEDD8 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NEDD8. It may not necessarily be applicable to this product.

NCBI GI #	5453760
NCBI GeneID	4738
NCBI Accession #	NP_006147
UniProt Primary Accession #	Q15843
UniProt Secondary Accession #	Q3SXN8; Q6LES6
UniProt Related Accession #	Q15843
GenBank Nucleotide #	NM_006156.2
NCBI Official Full Name	NEDD8
NCBI Official Synonym Full Names	neural precursor cell expressed, developmentally down-regulated 8
NCBI Official Symbol	NEDD8
NCBI Official Synonym Symbols	NEDD-8
UniProt Protein Name	NEDD8
UniProt Synonym Protein Names	Neddylin; Neural precursor cell expressed developmentally down-regulated protein 8; NEDD-8; Ubiquitin-like protein Nedd8
Protein Family	NEDD8
UniProt Gene Name	NEDD8
UniProt Synonym Gene Names	NEDD-8
UniProt Entry Name	NEDD8_HUMAN
NCBI Protein Information	NEDD8

UniProt Comments for NEDD8	NEDD8: a member of the ubiquitin family of proteins. Approximately 60% identical to ubiquitin protein. Activated by an E1-like complex, consisting of App-b1 and Uba3 and then linked to the E2-like enzyme, Ubc12. The major target protein modified by nedd8 is cullin-4a. Down-regulated during the development of brain. Protein type: Ubiquitin-like modifier Chromosomal Location of Human Ortholog: 14q12 Cellular Component: cytosol; nucleus Molecular Function: protein binding; ubiquitin protein ligase binding Biological Process: regulation of transcription from RNA polymerase II promoter; ubiquitin-dependent protein catabolic process; anatomical structure morphogenesis; protein localization; protein neddylation; transforming growth factor beta receptor signaling pathway; protein modification process; proteolysis; response to organic cyclic substance
Research Articles on NEDD8	**1.** Furthermore, the authors characterized SENP8/DEN1 as the protease that counteracts Ubc12 auto-neddylation, and observed aberrant neddylation of Ubc12 and other NEDD8 conjugation pathway components in SENP8-deficient cells.
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