

Rabbit NEDD8 Polyclonal Antibody | anti-NEDD8 antibody

NEDD8 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326076	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

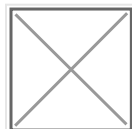
PRODUCT SYNONYMS

NEDD8; Polyclonal Antibody; NEDD8 Antibody; FLJ43224; MGC104393; MGC125896; MGC125897; NED8; NEDD 8; NEDD-8; Nedd8; NEDD8_HUMAN; Neddylin; Neural precursor cell expressed developmentally down regulated 8; Neural precursor cell expressed developmentally down regulated gene 8; Neural precursor cell expressed developmentally down-regulated protein 8; Rub1; Ubiquitin like protein Nedd 8; Ubiquitin like protein Nedd8; Ubiquitin-like protein Nedd8; anti-NEDD8 antibody

PRODUCT SPECIFICATIONS

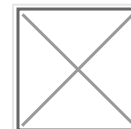
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	NEDD8 antibody detects endogenous levels of total NEDD8
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	81
Applicable Applications for anti-NEDD8 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human NEDD8
Subcellular Location	Nucleus. Mainly nuclear.
Tissue Specificity	Highly expressed in heart, skeletal muscle, spleen, thymus, prostate, testis, ovary, colon and leukocytes.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of HeLa whole cell lysates, using NEDD8 Antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326076 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA326076 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-NEDD8 antibody	Description: Neural precursor cell-expressed developmentally downregulated protein 8 (NEDD8), also known as Rub1 (related to ubiquitin 1) in plants and yeast, is a member of the ubiquitin-like protein family (1, 2). The covalent attachment of NEDD8 to target proteins, termed neddylation, is a reversible, multi-step process analogous to ubiquitination. NEDD8 is first synthesized in a precursor form with a carboxy-terminal extension peptide that is removed by either the UCH-L3 or NEDP1/DEN1 hydrolase protein to yield a mature NEDD8 protein (3, 4). Mature NEDD8 is then covalently linked to target proteins via the carboxy-terminal glycine residue in a reaction catalyzed by the APP-BP1/Uba3 heterodimer complex and Ubc12 as the E1-and E2-like enzymes, respectively (5). An E3 ligase protein, Roc1/Rbx1, is also required for neddylation of the cullin proteins (6). Protein de-neddylation is catalyzed by a number of enzymes in the cell, including a ubiquitin-specific protease USP21, the NEDP1/DEN1 hydrolase and the COP9/signalosome (CSN) (7, 8, 9). In contrast to the ubiquitin pathway, the NEDD8 modification system acts on only a few substrates and does not appear to target proteins for degradation. Neddylation of cullin proteins activates the SCF (Skp1-Cullin-F-box) E3 ubiquitin ligase complex by promoting complex formation and enhancing the recruitment of the E2-ubiquitin intermediate (10). While NEDD8 modification of VHL is not required for ubiquitination of HIF1-alpha, it is required for fibronectin matrix assembly (11). Mdm2-dependent neddylation of p53 inhibits its transcriptional activity (12). Function: Ubiquitin-like protein which plays an important role in cell cycle control and embryogenesis. Covalent attachment to its substrates requires prior activation by the E1 complex UBE1C-APPBP1 and linkage to the E2 enzyme UBE2M. Attachment of NEDD8 to cullins activates their associated E3 ubiquitin ligase activity, and thus promotes polyubiquitination and proteasomal degradation of cyclins and other regulatory proteins. Subunit Structure: Directly interacts with NUB1 and AHR. Covalently attached to cullins and p53. Post-translational Modifications: Cleavage of precursor form by UCHL3 or SENP8 is necessary for function. Similarity: Belongs to the ubiquitin family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5453760
NCBI GeneID	4738
NCBI Accession #	NP_006147.1
NCBI GenBank Nucleotide #	NM_006156.2
UniProt Accession #	Q15843; Q3SXN8; Q6LES6
Molecular Weight	Observed: 9 kDa Predicted: 10 kDa
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
NCBI Protein Information	NEDD8
UniProt Protein Name	NEDD8
UniProt Gene Name	NEDD8

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nedd8-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326076>