

Rabbit NEDD8 Polyclonal Antibody | anti-NEDD8 antibody

NEDD8 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA170734	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot

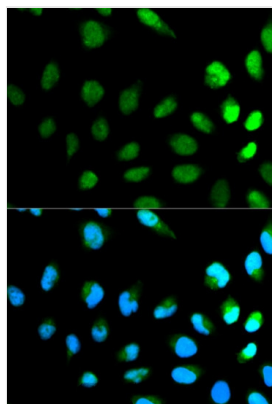
PRODUCT SYNONYMS

NEDD8; Polyclonal Antibody; NEDD8 Antibody; FLJ43224; MGC104393; MGC125896; MGC125897; Nedd-8; anti-NEDD8 antibody

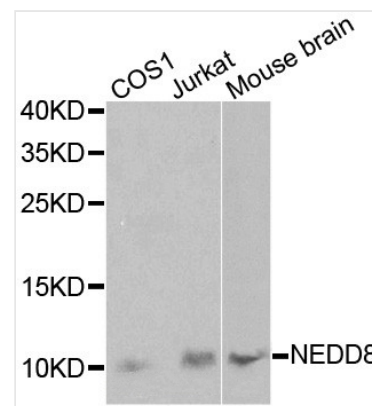
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antigen affinity purification
Concentration	1mg/mL (varies by lot)
Sequence Length	81
Applicable Applications for anti-NEDD8 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant protein of human NEDD8
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-5480 / sc-5478 / sc-5479 / sc-30077
Preparation and Storage	Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles.

IMAGES


IF (Immunofluorescence)

Immunofluorescence analysis of HeLa cell using NEDD8 antibody. Blue: DAPI for nuclear staining.


WB (Western Blot)

Western blot analysis of extracts of various cell lines, using NEDD8 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-NEDD8 antibody	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).
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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
Molecular Weight	9,072 Da
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; neddylin; ubiquitin-like protein Nedd8
UniProt Protein Name	NEDD8
UniProt Gene Name	NEDD8
UniProt Synonym Gene Names	NEDD-8
UniProt Entry Name	NEDD8_HUMAN

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.