

Product datasheet for TA326962S

NEDD8 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: WB

Recommended Dilution: WB 1:500 - 1:2000

Reactivity: Mouse, Rat

Host: Rabbit

Isotype: IgG

Clonality: Polyclonal

Immunogen: Recombinant protein of human NEDD8

Formulation: Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50%

glycerol, pH7.3

Concentration: lot specific

Purification: Affinity purification

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Gene Name: neural precursor cell expressed, developmentally down-regulated 8

Database Link: NP 006147

Entrez Gene 18002 MouseEntrez Gene 25490 Rat

Q15843



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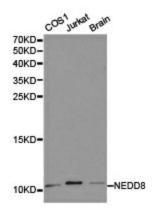
Background:

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. 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. 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. An E3 ligase protein, Roc1/Rbx1, is also required for neddylation of the cullin proteins. 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). 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. While NEDD8 modification of VHL is not required for ubiquitination of HIF1-a, it is required for fibronectin matrix assembly. Mdm2-dependent neddylation of p53 inhibits its transcriptional activity

Synonyms: NEDD-8

Protein Families: Druggable Genome

Product images:



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