

Product datasheet for **AP06450PU-M**

NEDD8 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of NEDD8 protein. (region surrounding Asp21)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 85 kDa
Gene Name:	neural precursor cell expressed, developmentally down-regulated 8
Database Link:	Entrez Gene 4738 Human Q15843



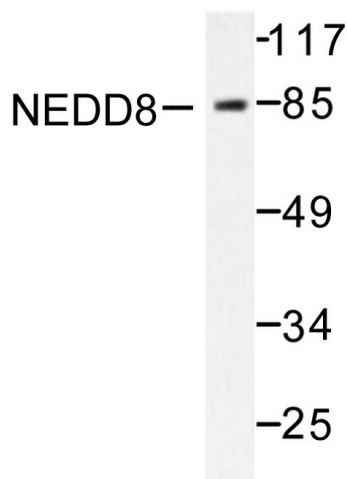
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Background:

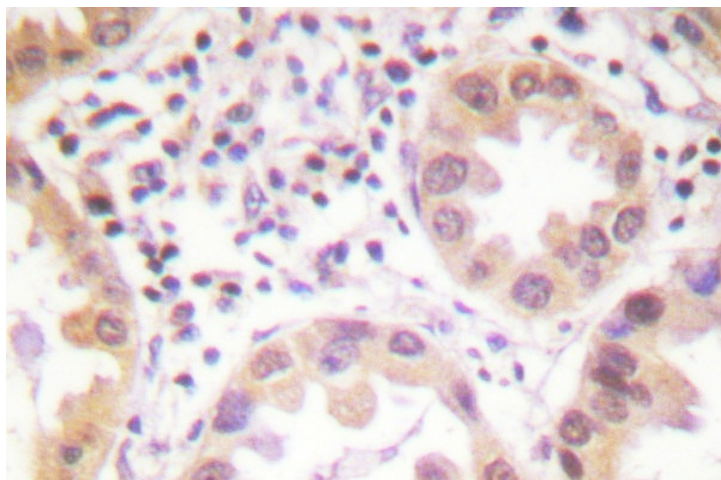
NEDD8 is a ubiquitin (Ub)-like molecule that shares 80% homology with ubiquitin, a protein known to modify and target various proteins for proteolytic degradation. NEDD8 and the corresponding yeast homolog RUB1 are activated by the E1 ubiquitin activating enzyme UBA2, which forms isopeptide linkages between thio esters. Similar to the Ub-mediated proteolytic pathway, NEDD8 is covalently coupled to an E3 Ub ligase by the E2 conjugating enzyme, UBC12. NEDD8 preferentially associates with the CUL-2 protein in the E3 ligase complex CBCVHL, which consists of cullin proteins associating with elongin B/C and the tumor suppressor F-box protein von Hippel Lindau (VHL). NEDD8 is predominantly localized to the nucleus and is highly expressed in adult heart and skeletal muscle. In vitro studies indicate that NEDD8 tetramers are also able to bind to the 26S proteasome, and that they assemble into complexes with conserved Ub-like moieties, suggesting that NEDD8 may regulate proteolysis of intracellular proteins similar to other Ub-mediated pathways.

Synonyms:

APPBP1; FLJ43224; MGC104393; MGC125896; MGC125897; NAE1; Nedd-8; Neddylin

Product images:


Western blot (WB) analysis of NEDD8 antibody (Cat.-No.: [AP06450PU-N]) in extracts from Jurkat cells.



Immunohistochemistry (IHC) analyzes of NEDD8 antibody (Cat.-No.: [AP06450PU-N]) in paraffin-embedded human lung carcinoma tissue.