

**NEDD8 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1226a****Specification**

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**NEDD8 Antibody (N-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q15843</a>
Other Accession	<a href="#">Q71UE8</a> , <a href="#">Q4PLJ0</a> , <a href="#">P29595</a> , <a href="#">P61282</a>
Reactivity	Human
Predicted	Bovine, Mouse, Rabbit, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	9072
Antigen Region	1-32

**NEDD8 Antibody (N-term) - Additional Information****Gene ID** 4738**Other Names**

NEDD8, Neddylin, Neural precursor cell expressed developmentally down-regulated protein 8, NEDD-8, Ubiquitin-like protein Nedd8, NEDD8

**Target/Specificity**

This NEDD8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-32 amino acids from the N-terminal region of human NEDD8.

**Dilution**WB~~1:1000  
IHC-P~~1:50~100**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

NEDD8 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**NEDD8 Antibody (N-term) - Protein Information****Name** NEDD8 {ECO:0000303|PubMed:9694792, ECO:0000312|HGNC:HGNC:7732}

**Function** Ubiquitin-like protein which plays an important role in cell cycle control and embryogenesis via its conjugation to a limited number of cellular proteins, such as cullins or p53/TP53 (PubMed:[9694792](#), PubMed:[10318914](#), PubMed:[10597293](#), PubMed:[11953428](#), PubMed:[15242646](#), PubMed:[14690597](#)). Attachment of NEDD8 to cullins is critical for the recruitment of E2 to the cullin-RING-based E3 ubiquitin-protein ligase complex, thus facilitating polyubiquitination and proteasomal degradation of cyclins and other regulatory proteins (PubMed:[9694792](#), PubMed:[10318914](#), PubMed:[10597293](#), PubMed:[11953428](#), PubMed:[20688984](#)). Attachment of NEDD8 to p53/TP53 inhibits p53/TP53 transcriptional activity (PubMed:[15242646](#)). Covalent attachment to its substrates requires prior activation by the E1 complex UBE1C-APPBP1 and linkage to the E2 enzyme UBE2M (PubMed:[14690597](#)).

**Cellular Location**

Nucleus. Note=Mainly nuclear.

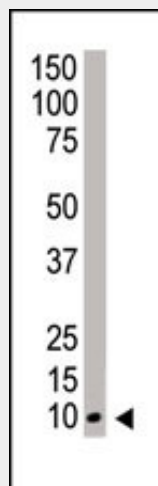
**Tissue Location**

Highly expressed in heart, skeletal muscle, spleen, thymus, prostate, testis, ovary, colon and leukocytes

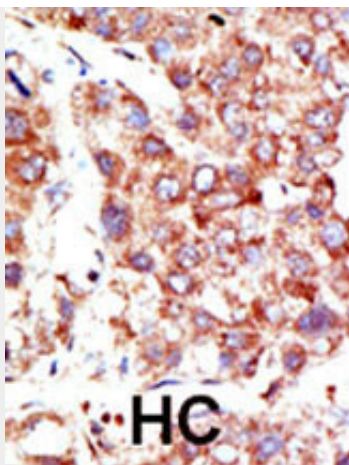
**NEDD8 Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**NEDD8 Antibody (N-term) - Images**

Western blot analysis of NEDD8 polyclonal antibody (Cat. #AP1226a) in HeLa cell lysate. NEDD8 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



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.

#### **NEDD8 Antibody (N-term) - Background**

NEDD8 is a 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.

#### **NEDD8 Antibody (N-term) - References**

- Wu, K., et al., J. Biol. Chem. 278(31):28882-28891 (2003).
- Bohnsack, R.N., et al., J. Biol. Chem. 278(29):26823-26830 (2003).
- Fan, M., et al., Mol. Endocrinol. 17(3):356-365 (2003).
- Walden, H., et al., Nature 422(6929):330-334 (2003).
- Liu, J., et al., Mol. Cell 10(6):1511-1518 (2002).