

# NEDD8 Antibody

Rabbit mAb

Catalog # AP91053

## Product Information

<b>Application</b>	WB, IHC, IF, ICC, IP, IHF
<b>Primary Accession</b>	<a href="#">Q15843</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	NEDD8; Nedd-8;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	9072

## Additional Information

<b>Dilution</b>	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:20
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human NEDD8
<b>Description</b>	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.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## Protein Information

<b>Name</b>	NEDD8 {ECO:0000303   PubMed:9694792, ECO:0000312   HGNC:HGNC:7732}
<b>Function</b>	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: <a href="#">10318914</a> , PubMed: <a href="#">10597293</a> , PubMed: <a href="#">11953428</a> , PubMed: <a href="#">14690597</a> , PubMed: <a href="#">15242646</a> , PubMed: <a href="#">9694792</a> , PubMed: <a href="#">38605244</a> , PubMed: <a href="#">38316879</a> ). 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: <a href="#">10318914</a> , PubMed: <a href="#">10597293</a> , PubMed: <a href="#">11953428</a> , PubMed: <a href="#">20688984</a> , PubMed: <a href="#">9694792</a> , PubMed: <a href="#">38605244</a> , PubMed: <a href="#">38316879</a> ). Attachment of NEDD8 to p53/TP53 inhibits p53/TP53 transcriptional activity (PubMed: <a href="#">15242646</a> ). Covalent attachment to its substrates requires prior activation by the E1 complex UBE1C-APPBP1 and linkage to the E2 enzyme UBE2M (PubMed: <a href="#">14690597</a> ).

**Cellular Location**

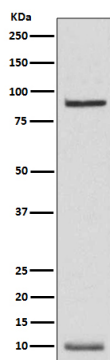
Nucleus. Note=Mainly nuclear.

**Tissue Location**

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

**Images**

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Western blot analysis of NEDD8 expression in K562 cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.