

# NEDD8 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1664a

## Product Information

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<b>Application</b>	WB, IHC, FC, ICC, E
<b>Primary Accession</b>	<a href="#">Q15843</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	1A7
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	9072
<b>Description</b>	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. Tissue specificity: Highly expressed in heart, skeletal muscle, spleen, thymus, prostate, testis, ovary, colon and leukocytes.
<b>Immunogen</b>	Purified recombinant fragment of human NEDD8 expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS with 0.05% sodium azide

## Additional Information

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<b>Gene ID</b>	4738
<b>Other Names</b>	NEDD8, Neddylin, Neural precursor cell expressed developmentally down-regulated protein 8, NEDD-8, Ubiquitin-like protein Nedd8, NEDD8
<b>Dilution</b>	WB~~1/500 - 1/2000 IHC~~1/500 - 1/2000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	NEDD8 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<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> ).
<b>Cellular Location</b>	Nucleus. Note=Mainly nuclear.
<b>Tissue Location</b>	Highly expressed in heart, skeletal muscle, spleen, thymus, prostate, testis, ovary, colon and leukocytes

## References

1. Cell. 2009 Jul 23;138(2):389-403. 2. Biochem Biophys Res Commun. 2009 Apr 10;381(3):443-7.

## Images

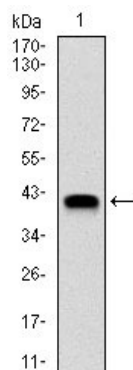


Figure 1: Western blot analysis using NEDD8 mAb against human NEDD8 (AA: 1-81) recombinant protein. (Expected MW is 40 kDa)

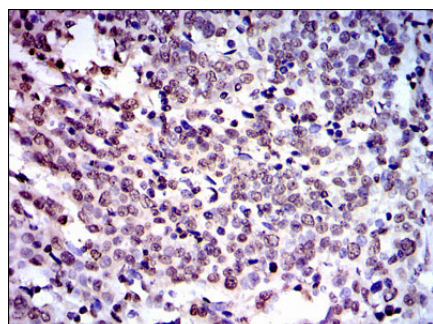


Figure 2: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using NEDD8 mouse mAb with DAB staining.

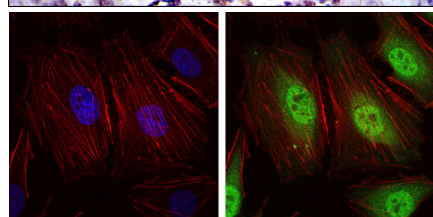


Figure 3: Immunofluorescence analysis of HeLa cells using NEDD8 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

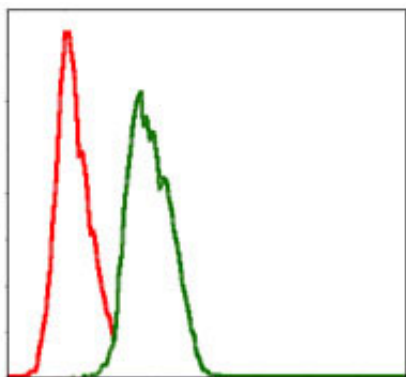


Figure 4: Flow cytometric analysis of Hela cells using NEDD8 mouse mAb (green) and negative control (red).

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