

NEDD8 Antibody (clone 5B8)
Mouse Monoclonal Antibody
Catalog # ALS16266**Specification****NEDD8 Antibody (clone 5B8) - Product Information**

Application	IHC, WB, IF
Primary Accession	Q15843
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	9kDa KDa

NEDD8 Antibody (clone 5B8) - 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

Human NEDD8

Reconstitution & Storage

Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions

NEDD8 Antibody (clone 5B8) is for research use only and not for use in diagnostic or therapeutic procedures.

NEDD8 Antibody (clone 5B8) - 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:15242646, PubMed:14690597).

[10318914](http://www.uniprot.org/citations/10318914), PubMed: [10597293](http://www.uniprot.org/citations/10597293), PubMed: [11953428](http://www.uniprot.org/citations/11953428), PubMed: [20688984](http://www.uniprot.org/citations/20688984)). Attachment of NEDD8 to p53/TP53 inhibits p53/TP53 transcriptional activity (PubMed: [15242646](http://www.uniprot.org/citations/15242646)). Covalent attachment to its substrates requires prior activation by the E1 complex UBE1C-APPBP1 and linkage to the E2 enzyme UBE2M (PubMed: [14690597](http://www.uniprot.org/citations/14690597)).

Cellular Location

Nucleus. Note=Mainly nuclear.

Tissue Location

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

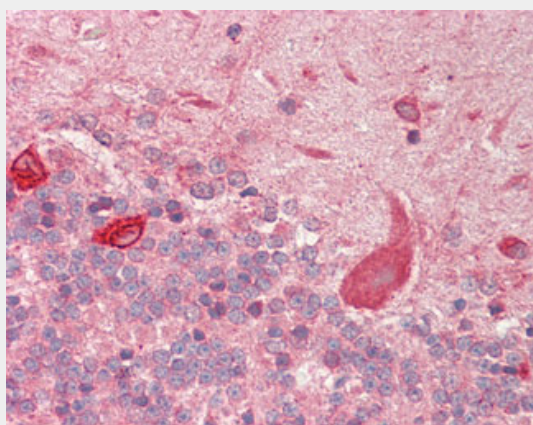
Volume

50 µl

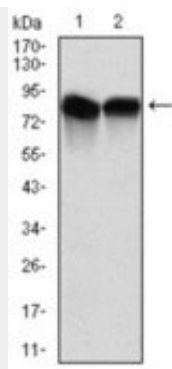
NEDD8 Antibody (clone 5B8) - Protocols

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

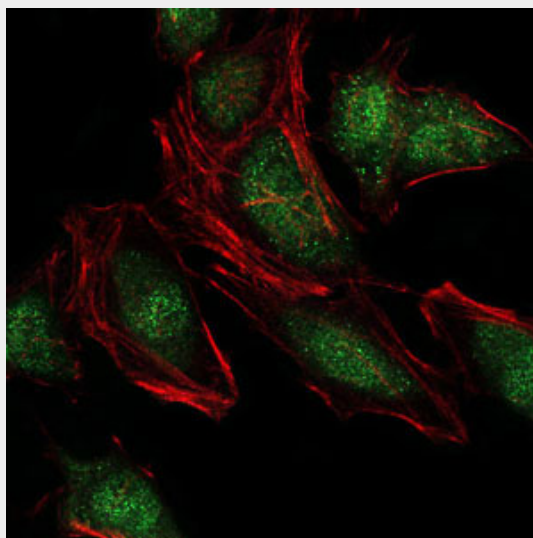
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NEDD8 Antibody (clone 5B8) - Images

Anti-NEDD8 antibody IHC staining of human brain, cerebellum.



Western blot using NEDD8 mouse monoclonal antibody against C6 (1) and HeLa (2) cell lysate.



Immunofluorescence of HeLa cells using NEDD8 mouse monoclonal antibody (green).

NEDD8 Antibody (clone 5B8) - Background

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 (clone 5B8) - References

- Osaka F.,et al.Genes Dev. 12:2263-2268(1998).
- Ebert L.,et al.Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.
- Liakopoulos D.,et al.Proc. Natl. Acad. Sci. U.S.A. 96:5510-5515(1999).
- Kamitani T.,et al.J. Biol. Chem. 272:28557-28562(1997).
- Wada H.,et al.Biochem. Biophys. Res. Commun. 251:688-692(1998).