

Anti-NEDD8 Picoband Antibody
Catalog # ABO10090**Specification**

Anti-NEDD8 Picoband Antibody - Product Information

Application	WB, IHC-P
Primary Accession	Q15843
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for NEDD8(NEDD8) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-NEDD8 Picoband Antibody - 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

Calculated MW

9072 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Nucleus . Mainly nuclear.

Tissue Specificity

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

Protein Name

NEDD8

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence in the middle region of human NEDD8 (20-60aa TDKVERIKERVEEKEGIPPQQRLIYSGKQMNDEKTAADYK), identical to the related mouse and rat

sequences.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Anti-NEDD8 Picoband Antibody - 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:10318914, PubMed:10597293, PubMed:11953428, PubMed:14690597, PubMed:15242646, PubMed:9694792, PubMed:38605244, PubMed:38316879). 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:10318914, PubMed:10597293, PubMed:11953428, PubMed:20688984, PubMed:9694792, PubMed:38605244, PubMed:38316879). 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

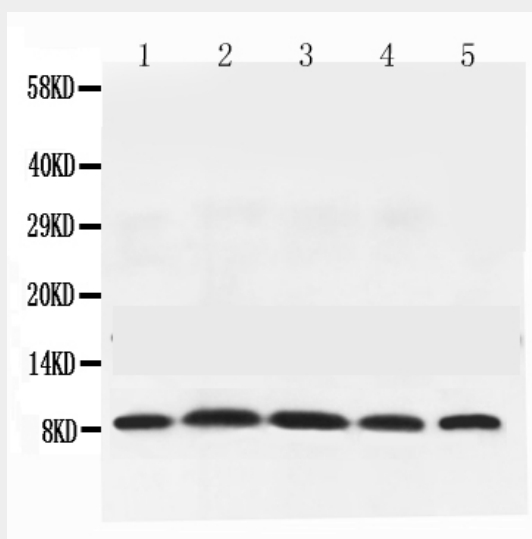
Highly expressed in heart, skeletal muscle, spleen, thymus, prostate, testis, ovary, colon and leukocytes

Anti-NEDD8 Picoband Antibody - Protocols

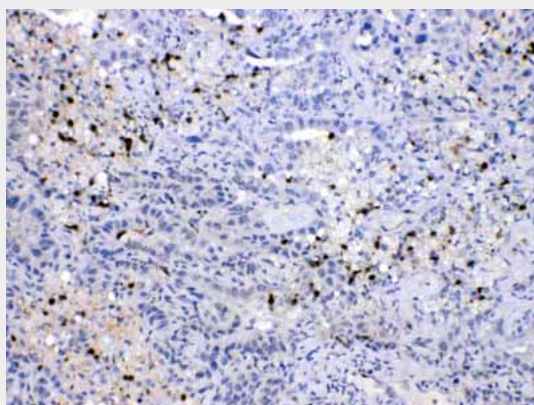
Provided below are standard protocols that you may find useful for product applications.

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

Anti-NEDD8 Picoband Antibody - Images



Western blot analysis of NEDD8 expression in rat testis extract (lane 1), mouse thymus extract (lane 2), mouse brain extract (lane 3), HELA whole cell lysates (lane 4) and MCF-7 whole cell lysates (lane 5). NEDD8 at 9KD was detected using rabbit anti- NEDD8 Antigen Affinity purified polyclonal antibody (Catalog #ABO10090) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL) method .



NEDD8 was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- NEDD8 Antigen Affinity purified polyclonal antibody (Catalog # ABO10090) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .

Anti-NEDD8 Picoband Antibody - Background

NEDD8 is a protein that in humans is encoded by the NEDD8 gene. Human NEDD8 shares 60%

amino acid sequence identity to ubiquitin. The most substrates of NEDD8 modification are the Cullin subunits of Cullin-based E3 ubiquitin ligases, which are active only when neddylated. Their NEDDylation is critical for the recruitment of E2 to the ligase complex, thus facilitating ubiquitin conjugation. NEDD8 modification has therefore been implicated in cell cycle progression and cytoskeletal regulation.