

Anti-NEDD8 Antibody

Rabbit polyclonal antibody to NEDD8

Catalog # AP59634

Product Information

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|-------------------|---|
| Application | WB, IP, IHC |
| Primary Accession | Q15843 |
| Other Accession | P29595 |
| Reactivity | Human, Mouse, Rat, Rabbit, Bovine, Drosophila |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 9072 |

Additional Information

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|--------------------|---|
| Gene ID | 4738 |
| Other Names | NEDD8; Neddylin; Neural precursor cell expressed developmentally down-regulated protein 8; NEDD-8; Ubiquitin-like protein Nedd8 |
| Target/Specificity | KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human NEDD8. The exact sequence is proprietary. |
| Dilution | WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IP (1/10 - 1/100) IP~~N/A IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IP (1/10 - 1/100) |
| Format | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide. |
| Storage | Store at -20 °C. Stable for 12 months from date of receipt |

Protein Information

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| 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.

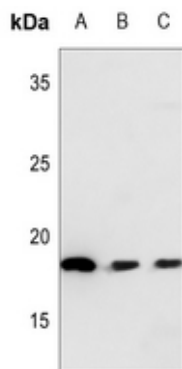
Tissue Location

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

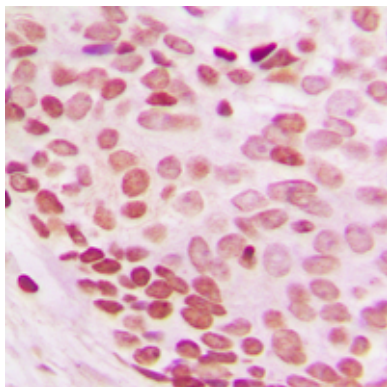
Background

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human NEDD8. The exact sequence is proprietary.

Images



Western blot analysis of NEDD8 expression in mouse kidney (A), mouse testis (B), rat kidney (C) whole cell lysates.



Immunohistochemical analysis of NEDD8 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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