

Rabbit NEDD4 Polyclonal Antibody | anti-NEDD4 antibody

NEDD4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329511	Rabbit	Human, Mouse Predicted Reactivity: Pig (100%), Bovine (100%), Horse (92%), Sheep (100%), Rabbit (100%), Dog (100%)	ELISA, Western Blot

PRODUCT SYNONYMS

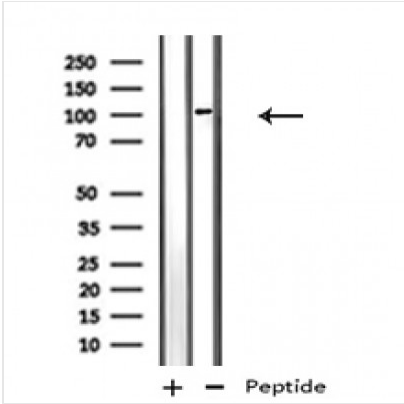
NEDD4; Polyclonal Antibody; NEDD4 Antibody; Cell proliferation-inducing gene 53 protein; E3 ubiquitin protein ligase Nedd4; E3 ubiquitin-protein ligase NEDD4; HECT-type E3 ubiquitin transferase NEDD4; KIAA0093; NEDD 4; NEDD-4; Nedd4; NEDD4_HUMAN; Neural precursor cell expressed developmentally down regulated 4; Neural precursor cell expressed developmentally down-regulated protein 4; neural precursor cell expressed; developmentally down-regulated 4; E3 ubiquitin protein ligase; PIG53; receptor-potentiating factor 1; RPF1; anti-NEDD4 antibody

PRODUCT SPECIFICATIONS

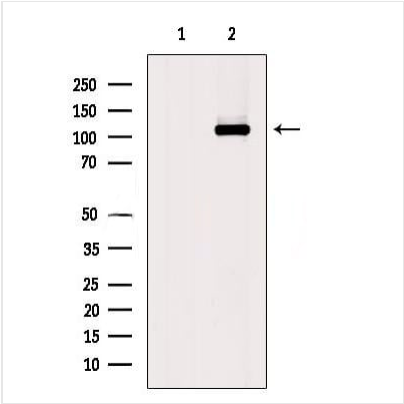
Host	Rabbit
Reactivity	Human, Mouse Predicted Reactivity: Pig (100%), Bovine (100%), Horse (92%), Sheep (100%), Rabbit (100%), Dog (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	NEDD4 Antibody detects endogenous levels of total NEDD4.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-NEDD4 antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human NEDD4, corresponding to a region within the internal amino acids.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Auto-ubiquitinated.
Subunit Structure	Interacts with UBE2D2. Binds SCNN1A, SCNN1B and SCNN1G. Binds, in vitro, through the WW2 and WW3 domains, to neural isoforms of ENAH that contain the PPSY motif. Interacts with BEAN1, LITAF, RNF11, WBP1, WBP2, PMEPAI and PRRG2 (By similarity). Interacts with NDFIP1 and NDFIP2; this interaction activates the E3 ubiquitin-protein ligase and may induce its recruitment to exosomes (By similarity). Interaction with PTEN is questionable according to. Interacts (via C2 domain) with GRB10 (via SH2 domain). Interacts with ERBB4 (By similarity). Interacts with TNIK; the interaction is direct, allows the TNIK-dependent recruitment of RAP2A and its ubiquitination by NEDD4. Interacts (via WW3 domain) with TNK2; EGF promotes this interaction. Interacts (via WW3 domain) with FGFR1 (via C-terminus). Interacts with OTUD7B. Interacts with ISG15. Interacts (via WW domain) with RAPGEF2; this interaction leads to ubiquitination and degradation via the proteasome pathway. Interacts (via WW domains) with ARRDC3 (via PPXY motifs). Interacts with LAPTM4B; may play a role in the lysosomal sorting of LAPTM4B. Interacts (via WW domains) with ARRDC1, ARRDC2 and ARRDC3. Interacts with ZBTB7B (By similarity). (Microbial infection) Interacts with viral proteins that contain a late-budding motif P-P-P-Y. This interaction is essential for viral particle budding of many retroviruses, like HTLV-1 Gag and MLV Gag. Interacts with Herpes simplex virus 2 (HHV-2) protein UL56; this interaction induces NEDD4 degradation. Interacts with Ebola virus protein VP40.

Similarity	The WW domains mediate interaction with PPxY motif-containing proteins (PubMed:21191027). The WW domains mediate interaction with LITAF, RNF11, WBP1, WBP2, PMEPAI, NDFIP1 and PRRG2 (By similarity).
Subcellular Location	Cytoplasm. Cell membrane>Peripheral membrane protein. Note: Recruited to the plasma membrane by GRB10. Once complexed with GRB10 and IGF1R, follows IGF1R internalization, remaining associated with early endosomes. Uncouples from IGF1R-containing endosomes before the sorting of the receptor to the lysosomal compartment (By similarity). May be recruited to exosomes by NDFIP1.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of NEDD4 in lysates of SK-MEL-28, using NEDD4 Antibody(AF4636).



WB (Western Blot)
Western blot analysis of extracts from MCF7 cells, using NEDD4 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-NEDD4 antibody	E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Specifically ubiquitinates 'Lys-63' in target proteins. Involved in the pathway leading to the degradation of VEGFR-2/KDFR, independently of its ubiquitin-ligase activity. Monoubiquitinates IGF1R at multiple sites, thus leading to receptor internalization and degradation in lysosomes. Ubiquitinates FGFR1, leading to receptor internalization and degradation in lysosomes. Promotes ubiquitination of RAPGEF2. According tothe direct link between NEDD4 and PTEN regulation through polyubiquitination described inis questionable. Involved in ubiquitination of ERBB4 intracellular domain E4ICD. Involved in the budding of many viruses. Part of a signaling complex composed of NEDD4, RAP2A and TNIK which regulates neuronal dendrite extension and arborization during development. Ubiquitinates TNK2 and regulates EGF-induced degradation of EGFR and TNF2. Ubiquitinates BRAT1 and this ubiquitination is enhanced in the presence of NDFIP1. (Microbial infection) Involved in the ubiquitination of Ebola virus protein VP40 which plays a role in viral budding.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	313104311
NCBI GeneID	4734
UniProt Accession #	P46934; A1KY35; A6ND72; A7MD29; B4E2R7; B7ZM59; B7ZM60; B9EGN5; D6RF89
Molecular Weight	1319
NCBI Official Full Name	E3 ubiquitin-protein ligase NEDD4
NCBI Official Synonym Full Names	neural precursor cell expressed, developmentally down-regulated 4, E3 ubiquitin protein ligase
NCBI Official Symbol	NEDD4
NCBI Official Synonym Symbols	RPF1; NEDD4-1

NCBI Protein Information	E3 ubiquitin-protein ligase NEDD4; receptor-potentiating factor 1; cell proliferation-inducing gene 53 protein; neural precursor cell expressed developmentally down-regulated protein 4
UniProt Protein Name	E3 ubiquitin-protein ligase NEDD4
UniProt Gene Name	NEDD4
UniProt Synonym Gene Names	KIAA0093; NEDD4-1; NEDD-4
UniProt Entry Name	NEDD4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nedd4-antibody-peptide-elisa-western-blot-elisa/329511>