

Rabbit Anti-NEDD4 antibody

SL7877R

Product Name:	NEDD4
Chinese Name:	神经前体细胞发育下调蛋白4抗体
Alias:	Cell proliferation-inducing gene 53 protein; E3 ubiquitin protein ligase Nedd4; E3 ubiquitin-protein ligase 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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow- Cyt=3ug/testICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications
	optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	145kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SRD5A2:801-900/1319
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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. 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. According to PubMed:18562292 the direct link between NEDD4 and PTEN regulation through polyubiquitination described in PubMed:17218260 is 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.

Function:

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. 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. According to PubMed:18562292 the direct link between NEDD4 and PTEN regulation through polyubiquitination described in PubMed:17218260 is 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.

Subunit:

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, TMEPAI and PRRG2 (By similarity). Interacts with NDFIP1 and NDFIP2; this interaction activates the E3 ubiquitin-protein ligase and may induce its recruitment to exosomes. Interaction with PTEN is questionable according to PubMed:18562292. Interacts with viral proteins that contain a late- budding motif P-P-P-Y. This interaction is essential for viral particle budding of a lot of retroviruses, like HTLV-1 Gag and MLV Gag. Interacts (via C2 domain) with GRB10 (via SH2 domain). Interacts with ERBB4. 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).

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. May be recruited to exosomes by NDFIP1..

Post-translational modifications: Auto-ubiquitinated.

Similarity:

Contains 1 HECT (E6AP-type E3 ubiquitin-protein ligase) domain. Contains 4 WW domains.

SWISS: P46934

Gene ID: 4734

Database links:

Entrez Gene: 4734Human

Entrez Gene: 17999Mouse

Entrez Gene: 25489Rat

Omim: 602278Human

SwissProt: P46934Human

SwissProt: P46935Mouse

SwissProt: Q62940Rat

Unigene: 1565Human

Unigene: 279923Mouse

Unigene: 99540Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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temperature. The secondary antibody used for 40 min at room temperature.
Acquisition of 20,000 events was performed.

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