

NEDD4 Antibody
Rabbit mAb
Catalog # AP91782**Specification**

NEDD4 Antibody - Product Information

Application	WB, FC, IP
Primary Accession	P46934
Reactivity	Rat
Clonality	Monoclonal
Other Names	
Nedd4; PIG53; RPF1;	

Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	149114 Da

NEDD4 Antibody - Additional Information

Dilution	WB~~1:1000 FC~~1:10~50 IP~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human NEDD4
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

NEDD4 Antibody - Protein Information**Name** NEDD4**Synonyms** KIAA0093, NEDD4-1, RPF1 {ECO:0000303|Pub**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. Specifically ubiquitinates 'Lys-63' in target proteins (PubMed:<a

[19920177](http://www.uniprot.org/citations/19920177), PubMed: [21399620](http://www.uniprot.org/citations/21399620), PubMed: [23644597](http://www.uniprot.org/citations/23644597)). 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 (By similarity). Ubiquitinates FGFR1, leading to receptor internalization and degradation in lysosomes (PubMed: [21765395](http://www.uniprot.org/citations/21765395)). Promotes ubiquitination of RAPGEF2 (PubMed: [11598133](http://www.uniprot.org/citations/11598133)). According to PubMed: [18562292](http://www.uniprot.org/citations/18562292) is the direct link between NEDD4 and PTEN regulation through polyubiquitination described in PubMed: [17218260](http://www.uniprot.org/citations/17218260) is questionable. Involved in ubiquitination of ERBB4 intracellular domain E4ICD (By similarity). Part of a signaling complex composed of NEDD4, RAP2A and TNK1 which regulates neuronal dendrite extension and arborization during development (By similarity). Ubiquitinates TNK2 and regulates EGF-induced degradation of EGFR and TNF2 (PubMed: [20086093](http://www.uniprot.org/citations/20086093)). Ubiquitinates BRAT1 and this ubiquitination is enhanced in the presence of NDFIP1 (PubMed: [25631046](http://www.uniprot.org/citations/25631046)). Ubiquitinates DAZAP2, leading to its proteasomal degradation (PubMed: [11342538](http://www.uniprot.org/citations/11342538)). Ubiquitinates POLR2A (PubMed: [19920177](http://www.uniprot.org/citations/19920177)). Functions as a platform to recruit USP13 to form an NEDD4-USP13 deubiquitination complex that plays a critical role in cleaving the 'Lys-48'-linked ubiquitin chains of VPS34 and then stabilizing VPS34, thus promoting the formation of autophagosomes (PubMed: [32101753](http://www.uniprot.org/citations/32101753)).

Cellular Location

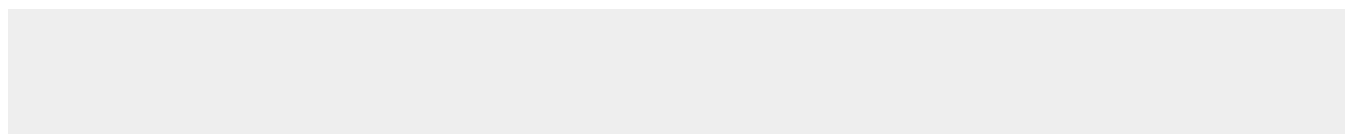
Cytoplasm. Nucleus. Cell membrane {ECO:0000250|UniProtKB:P46935}; Peripheral membrane protein {ECO:0000250|UniProtKB:P46935}. Note=Predominantly cytoplasmic but also located in the nucleus (PubMed:11342538). Recruited to the plasma membrane by GRB10. Once complexed with GRB10 and IGF1R, follows IGF1R 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 (PubMed:18819914). {ECO:0000250|UniProtKB:P46935, ECO:0000269|PubMed:11342538, ECO:0000269|PubMed:18819914}

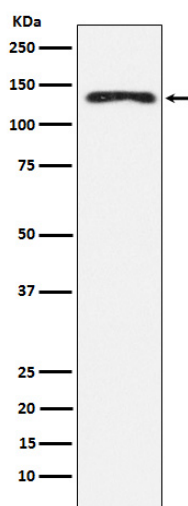
NEDD4 Antibody - Protocols

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](#)

NEDD4 Antibody - Images





Western blot analysis of NEDD4 expression in A549 cell lysate.