

NEDD4 Rabbit mAb
Catalog # AP76300**Specification**

NEDD4 Rabbit mAb - Product Information

Application	WB, IP
Primary Accession	P46934
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	149114

NEDD4 Rabbit mAb - Additional Information**Gene ID** 4734**Other Names**
NEDD4**Dilution**
WB~~1/500-1/1000
IP~~1/20**Format**
50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.**Storage**
Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.**NEDD4 Rabbit mAb - 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:19920177, PubMed:21399620, PubMed: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). Promotes ubiquitination of RAPGEF2 (PubMed:11598133). 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 (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). Ubiquitinates
BRAT1 and this ubiquitination is enhanced in the presence of NDFIP1 (PubMed:25631046). Ubiquitinates
DAZAP2, leading to its proteasomal degradation (PubMed:11342538). Ubiquitinates
POLR2A (PubMed: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).

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 Rabbit mAb - 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 Rabbit mAb - Images



