

KD-Validated Anti-NEDD4L Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1319**Specification****KD-Validated Anti-NEDD4L Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	Q96PU5
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 112 kDa; observed, 130 kDa
Gene Name	NEDD4L
Aliases	NEDD4L; NEDD4 Like E3 Ubiquitin Protein Ligase; KIAA0439; NEDD4-2; RSP5; Neural Precursor Cell Expressed, Developmentally Down-Regulated 4-Like, E3 Ubiquitin Protein Ligase; HECT-Type E3 Ubiquitin Transferase NED4L; E3 Ubiquitin-Protein Ligase NEDD4-Like; NEDD4.2; Neural Precursor Cell Expressed, Developmentally Down-Regulated 4-Like; Ubiquitin-Protein Ligase Rsp5; EC 2.3.2.26; EC 2.3.2.36; HNEDD4-2; EC 6.3.2; Nedd4-2; PVNH7; NEDL3
Immunogen	A synthesized peptide derived from human NEDD4-2

KD-Validated Anti-NEDD4L Rabbit Monoclonal Antibody - Additional Information

Gene ID	23327
Other Names	E3 ubiquitin-protein ligase NEDD4-like, 2.3.2.26, 2.3.2.36, HECT-type E3 ubiquitin transferase NED4L, NEDD4.2, Nedd4-2, NEDD4L {ECO:0000303 PubMed:11840194}

KD-Validated Anti-NEDD4L Rabbit Monoclonal Antibody - Protein Information**Name** NEDD4L {ECO:0000303|PubMed:11840194}**Function**

E3 ubiquitin-protein ligase that mediates the polyubiquitination of lysine and cysteine residues on target proteins and is thereby implicated in the regulation of various signaling pathways including autophagy, innate immunity or DNA repair (PubMed:20064473, PubMed:31959741, PubMed:33608556). Inhibits TGF-beta signaling by triggering SMAD2 and TGFBR1 ubiquitination and proteasome- dependent

degradation (PubMed:15496141). Downregulates autophagy and cell growth by ubiquitinating and reducing cellular ULK1 or ASCT2 levels (PubMed:28820317, PubMed:31959741). Promotes ubiquitination and internalization of various plasma membrane channels such as ENaC, SCN2A/Nav1.2, SCN3A/Nav1.3, SCN5A/Nav1.5, SCN9A/Nav1.7, SCN10A/Nav1.8, KCNA3/Kv1.3, KCNH2, EAAT1, KCNQ2/Kv7.2, KCNQ3/Kv7.3 or CLC5 (PubMed:26363003, PubMed:27445338). Promotes ubiquitination and degradation of SGK1 and TNK2. Ubiquitinates BRAT1 and this ubiquitination is enhanced in the presence of NDFIP1 (PubMed:25631046). Plays a role in dendrite formation by melanocytes (PubMed:23999003). Involved in the regulation of TOR signaling (PubMed:27694961). Ubiquitinates and regulates protein levels of NTRK1 once this one is activated by NGF (PubMed:27445338). Plays a role in antiviral innate immunity by catalyzing 'Lys-29'-linked cysteine ubiquitination of TRAF3, resulting in enhanced 'Lys-48' and 'Lys-63'-linked ubiquitination of TRAF3 (PubMed:33608556). Ubiquitinates TTYH2 and TTYH3 and regulates protein levels of TTYH2 (PubMed:18577513).

Cellular Location

Cytoplasm. Golgi apparatus. Endosome, multivesicular body. Note=May be recruited to exosomes by NDFIP1

Tissue Location

Ubiquitously expressed, with highest levels in prostate, pancreas, and kidney (PubMed:14615060, PubMed:15496141, PubMed:19664597). Expressed in melanocytes (PubMed:23999003)

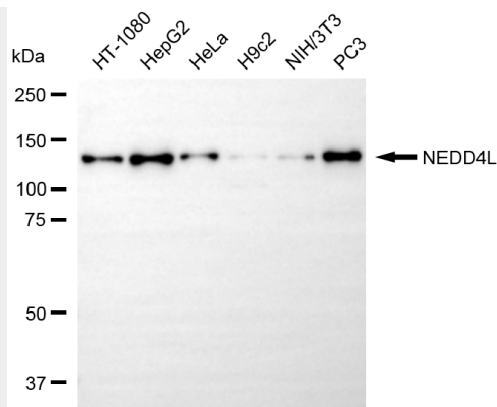
KD-Validated Anti-NEDD4L Rabbit Monoclonal Antibody - Protocols

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](#)

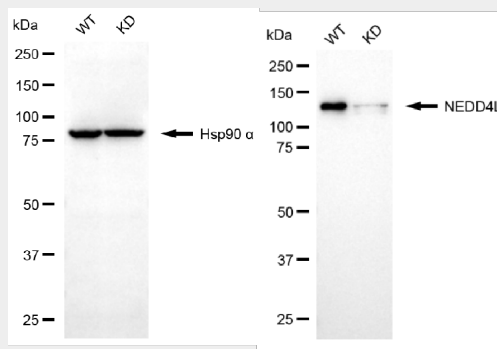
KD-Validated Anti-NEDD4L Rabbit Monoclonal Antibody - Images





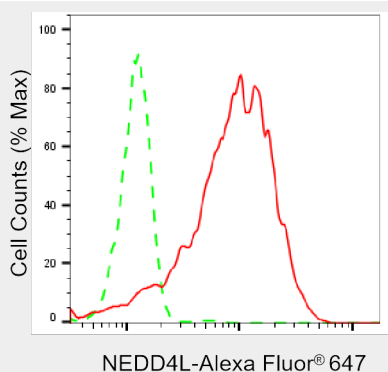
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Western blotting analysis using anti-NEDD4L antibody (Cat#AGI1319). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-NEDD4L antibody (Cat#AGI1319, 1:20,000) and HRP-conjugated goat anti rabbit secondary antibody respectively.



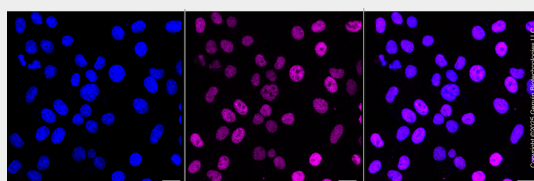
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Western blotting analysis using anti-NEDD4L antibody (Cat#AGI1319). NEDD4L expression in wild-type (WT) and NEDD4L knockdown (KD) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-NEDD4L antibody (Cat#AGI1319, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Flow cytometric analysis of NEDD4L expression in HepG2 cells using anti-NEDD4L antibody (Cat#AGI1319, 1:2,000). Green, isotype control; red, NEDD4L.



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Immunocytochemical staining of HepG2 cells with NEDD4L antibody (Cat#AGI1319, 1:1,000).

Nuclei were stained blue with DAPI; NEDD4L was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 μ m.