10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NEDD4L Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14949C

Specification

NEDD4L Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q96PU5
Other Accession	Q8CFI0, NP_001138436.1, NP_001138442.1, NP_001138439.1
Reactivity	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**111932**
Antigen Region	**576-604**

NEDD4L Antibody (Center) - Additional Information

Gene ID 23327

Other Names
E3 ubiquitin-protein ligase NEDD4-like, 632-, NEDD42, Nedd4-2, NEDD4L, KIAA0439, NEDL3

Target/Specificity
This NEDD4L antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 576-604 amino acids from the Central region of human NEDD4L.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
NEDD4L Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

NEDD4L Antibody (Center) - 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

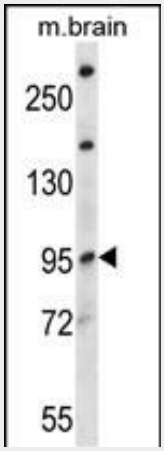
Tissue Location
Ubiquitously expressed, with highest levels in prostate, pancreas, and kidney (PubMed:14615060, PubMed:15496141, PubMed:19664597). Expressed in melanocytes (PubMed:23999003)

NEDD4L Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NEDD4L Antibody (Center) - Images



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NEDD4L Antibody (Center) (Cat. #AP14949c) western blot analysis in mouse brain tissue lysates (35ug/lane).This demonstrates the NEDD4L antibody detected the NEDD4L protein (arrow).

NEDD4L Antibody (Center) - Background

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. Inhibits TGF-beta signaling by triggering SMAD2 and TGFR1 ubiquitination and proteasome-dependent degradation. Promotes ubiquitination and internalization of various plasma membrane channels such as ENaC, Nav1.2, Nav1.3, Nav1.5, Nav1.7, Nav1.8, Kv1.3, EAAT1 or CLC5. Promotes ubiquitination and degradation of SGK.

NEDD4L Antibody (Center) - References

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