

NEDD4L Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14949c**Specification**

NEDD4L Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q96PU5](#)**NEDD4L Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 23327

Other Names

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NEDD4L Antibody (Center) Blocking Peptide - 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:31959741, PubMed:33608556, PubMed:20064473). 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).

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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NEDD4L Antibody (Center) Blocking Peptide - Images

NEDD4L Antibody (Center) Blocking Peptide - 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) Blocking Peptide - References

Zhou, R., et al. J. Biol. Chem. 285(40):30523-30530(2010)Raikwar, N.S., et al. Am. J. Physiol. Renal Physiol. 299 (2), F436-F444 (2010) :Hallows, K.R., et al. J. Biol. Chem. 285(28):21671-21678(2010)Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Jin, H.S., et al. Kidney Blood Press. Res. 33(1):15-23(2010)