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

KD-Validated Anti-NEDD4L Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1319

Product Information

Application	WB, FC, ICC
Primary Accession	Q96PU5
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB2910
Calculated MW	111932
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

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}

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). Down-regulates 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)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.