

KD-Validated Anti-NEDD9 Mouse Monoclonal Antibody

Mouse monoclonal antibody

Catalog # AGI2222

Product Information

Application	WB, FC
Primary Accession	Q14511
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2a
Clone Names	25GB670
Calculated MW	92861
Gene Name	NEDD9
Aliases	NEDD9; Neural Precursor Cell Expressed, Developmentally Down-Regulated 9; CAS-L; CASS2; HEF1; Cas Scaffolding Protein Family Member 2; Neural Precursor Cell Expressed Developmentally Down-Regulated Protein 9; Renal Carcinoma Antigen NY-REN-12; Enhancer Of Filamentation 1; CASL; Crk-Associated Substrate Related Protein Cas-L; CRK-Associated Substrate-Related Protein; Enhancer Of Filamentation 1 P55; P130Cas-Related Protein; Cas-Like Docking; Cas-Like; NEDD-9; CAS2; CasL; P105
Immunogen	Recombinant protein of human NEDD9

Additional Information

Gene ID	4739
Other Names	Enhancer of filamentation 1, hEF1, CRK-associated substrate-related protein, CAS-L, CasL, Cas scaffolding protein family member 2 {ECO:0000312 HGNC:HGNC:7733}, CASS2 {ECO:0000312 HGNC:HGNC:7733}, Neural precursor cell expressed developmentally down-regulated protein 9 {ECO:0000312 HGNC:HGNC:7733}, NEDD-9 {ECO:0000312 HGNC:HGNC:7733}, Renal carcinoma antigen NY-REN-12, p105, Enhancer of filamentation 1 p55, NEDD9 (HGNC:7733)

Protein Information

Name	NEDD9 (HGNC:7733)
Function	Scaffolding protein which plays a central coordinating role for tyrosine-kinase-based signaling related to cell adhesion (PubMed: 24574519). As a focal adhesion protein, plays a role in embryonic fibroblast migration (By similarity). May play an important role in integrin beta-1 or B cell antigen receptor (BCR) mediated signaling in B- and T-cells. Integrin beta-1 stimulation leads to recruitment of various proteins including CRKL and SHPTP2 to the tyrosine phosphorylated form (PubMed: 9020138). Promotes adhesion and migration of lymphocytes; as a result required for the correct migration of lymphocytes to the spleen and other secondary lymphoid organs

(PubMed:[17174122](#)). Plays a role in the organization of T-cell F- actin cortical cytoskeleton and the centralization of T-cell receptor microclusters at the immunological synapse (By similarity). Negatively regulates cilia outgrowth in polarized cysts (By similarity). Modulates cilia disassembly via activation of AURKA-mediated phosphorylation of HDAC6 and subsequent deacetylation of alpha-tubulin (PubMed:[17604723](#)). Positively regulates RANKL-induced osteoclastogenesis (By similarity). Required for the maintenance of hippocampal dendritic spines in the dentate gyrus and CA1 regions, thereby involved in spatial learning and memory (By similarity).

Cellular Location

Cytoplasm, cell cortex. Nucleus. Golgi apparatus. Cell projection, lamellipodium. Cytoplasm. Cell junction, focal adhesion. Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, spindle pole. Cell projection, cilium. Cytoplasm, cytoskeleton, cilium basal body Basolateral cell membrane {ECO:0000250|UniProtKB:A0A8I3PDQ1}

Tissue Location

Expressed in B-cells (at protein level) (PubMed:9020138). Expressed in the respiratory epithelium of the main bronchi to the bronchioles in the lungs (at protein level) (PubMed:9584194). High levels detected in kidney, lung, and placenta (PubMed:9584194). Expressed in lymphocytes (PubMed:9497377)

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