NEDD9 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	NEDD9, Monoclonal Antibody
Full Product Name	NEDD9 (Neural Precursor Cell Expressed Developmentally Down-regulated protein 9, Enhancer of Filamentation 1, hEF1, CRK-associated Substrate-related Protein, CAS-L, CasL, Cas Scaffolding Protein Family Member 2, NEDD-9, Renal Carcinoma Antigen NY-REN-12
Product Gene Name	anti-NEDD9 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1B4
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified
Specificity	Recognizes human NEDD9.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	93kDa
OMIM	602265
3D Structure	ModBase 3D Structure for Q14511
Immunogen	Partial recombinant protein corresponding to aa101-200 from human NEDD9 (NP_006394) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	PRDTIYQVPPSYQNQGIYQVPTGHGTQEQEVYQVPPSVQRSIGGTSGPHVGKKVITPVRTGHGYVYEYPSRYQKDVYDIPPSHTTQGVYDIPPSSAKGPV
Conjugate	MaxLight490
Product Categories/Family for anti-NEDD9 antibody	Antibodies; Ubiquitin
Applications Tested/Suitable for anti-NEDD9 antibody	FLISA, Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-NEDD9 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-NEDD9 antibody	NEDD9 (also HEF1 and CASL) is a 93kD (predicted) member of the CAS family of proteins. It is widely expressed, and serves to integrate integrin b1 and BCR signaling with cell mitotic pathways. Human NEDD9 is 834aa in length. It contains one SH3 domain (aa3-65), a Tyr-rich SH2-binding region (aa90-350), one Ser-rich four a-helix bundle protein interaction site (aa350-650), and an HLH motif that mediates Cas protein dimerization (aa710-760) NEDD9 usually runs at 105-115kD in SDS-PAGE due to phosphorylation. It is also cleaved near Leu361 to generate an active N-terminal 55kD fragment. One isoform shows a deletion of aa155-188, while two others show 20-7aa substitutions for aa155-834, 1-153, respectively. Over aa153-366 human and mouse NEDD9 share 85aa identity.
Other Notes	Small volumes of anti-NEDD9 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NEDD9 purchase	MBS6202070 is an antibody targeting NEDD9. Also known as NEDD9 (Neural Precursor Cell Expressed Developmentally Down-regulated protein 9, Enhancer of Filamentation 1, hEF1, CRK-associated Substrate-related Protein, CAS-L, CasL, Cas Scaffolding Protein Family Member 2, NEDD-9, Renal Carcinoma Antigen NY-REN-12. Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NEDD9. It may not necessarily be applicable to this product.

NCBI GI #	5453680
NCBI GeneID	4739
NCBI Accession #	NP_006394
UniProt Primary Accession #	Q14511
UniProt Related Accession #	Q14511
GenBank Nucleotide #	NM_006403
NCBI Official Full Name	enhancer of filamentation 1 isoform 1
NCBI Official Synonym Full Names	neural precursor cell expressed, developmentally down-regulated 9
NCBI Official Symbol	NEDD9
NCBI Official Synonym Symbols	CAS2; CASL; HEF1; CAS-L; CASS2
UniProt Protein Name	Enhancer of filamentation 1
UniProt Synonym Protein Names	CRK-associated substrate-related protein; CAS-L; CasL; Cas scaffolding protein family member 2; Neural precursor cell expressed developmentally down-regulated protein 9; NEDD-9; Renal carcinoma antigen NY-REN-12; p105Enhancer of filamentation 1 p55
Protein Family	Enhancer of filamentation
UniProt Gene Name	NEDD9
UniProt Synonym Gene Names	CASL; CASS2; hEF1; CAS-L; CasL; NEDD-9
UniProt Entry Name	CASL_HUMAN
NCBI Protein Information	enhancer of filamentation 1
NCBI Summary for NEDD9	The protein encoded by this gene is a member of the CRK-associated substrates family. Members of this family are adhesion docking molecules that mediate protein-protein interactions for signal transduction pathways. This protein is a focal adhesion protein that acts as a scaffold to regulate signaling complexes important in cell attachment, migration and invasion as well as apoptosis and the cell cycle. This protein has also been reported to have a role in cancer metastasis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]

UniProt Comments for NEDD9	Cas-L: a widely expressed docking protein which plays a central coordinating role for tyrosine-kinase-based signaling in cell adhesion. May function in transmitting growth control signals between focal adhesions at the cell periphery and the mitotic spindle in response to adhesion or growth factor signals initiating cell proliferation. Integrin beta-1 stimulation leads to recruitment of various proteins including CRK, NCK and SHPTP2 to the tyrosine phosphorylated form. Phosphorylated following integrin beta-1, antigen receptor, or C1a calcitonin receptor signaling. Transformation of fibroblasts with v-ABL results in an increase in its tyrosine phosphorylation. Phosphorylated by focal adhesion kinase. Highly expressed in kidney, lung, and placenta. Also detected in T-cells, B-cells and diverse cell lines. Protein type: Motility/polarity/chemotaxis; Adaptor/scaffold Chromosomal Location of Human Ortholog: 6p24.2 Cellular Component: spindle pole; Golgi apparatus; focal adhesion; lamellipodium; cytoplasm; spindle; cell cortex; nucleus Molecular Function: protein binding Biological Process: integrin-mediated signaling pathway; mitosis; actin filament bundle formation; cell division; regulation of growth; cytoskeleton organization and biogenesis; signal transduction; cell adhesion
Research Articles on NEDD9	**1.** NEDD9, E-cadherin and gamma-catenin proteins have roles in pancreatic ductal adenocarcinoma
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