

**KD-Validated Anti-NEDD9 Mouse Monoclonal Antibody**  
**Mouse monoclonal antibody**  
**Catalog # AGI2222****Specification****KD-Validated Anti-NEDD9 Mouse Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	<a href="#">Q14511</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2a
Calculated MW	Predicted, 93 kDa; observed, 93-115 kDa
Gene Name	KDa
Aliases	NEDD9 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

**KD-Validated Anti-NEDD9 Mouse Monoclonal Antibody - Additional Information**

Gene ID	4739
<b>Other Names</b>	
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 (<a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=7733" target="_blank">HGNC:7733</a>)	

**KD-Validated Anti-NEDD9 Mouse Monoclonal Antibody - 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:<a href="http://www.uniprot.org/citations/24574519" target="\_blank">24574519</a>). 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:<a href="http://www.uniprot.org/citations/9020138" target="\_blank">9020138</a>). 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:<a href="http://www.uniprot.org/citations/17174122" target="\_blank">17174122</a>). 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:<a href="http://www.uniprot.org/citations/17604723" target="\_blank">17604723</a>). 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)

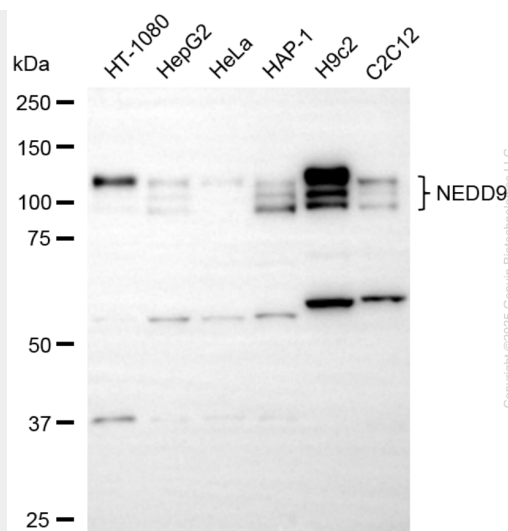
### **KD-Validated Anti-NEDD9 Mouse Monoclonal Antibody - Protocols**

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

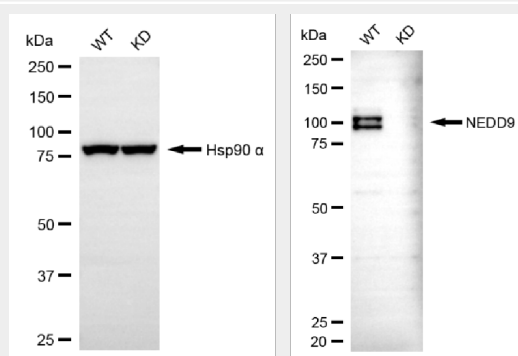
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **KD-Validated Anti-NEDD9 Mouse Monoclonal Antibody - Images**

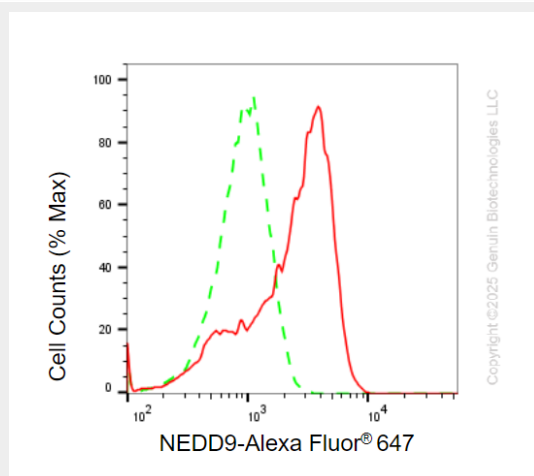




Western blotting analysis using anti-NEDD9 antibody (Cat#AGI2222). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-NEDD9 antibody (Cat#AGI2222, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-NEDD9 antibody (Cat#AGI2222). NEDD9 expression in wild-type (WT) and NEDD9 knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-NEDD9 antibody (Cat#AGI2222, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Flow cytometric analysis of NEDD9 expression in H9c2 cells using anti-NEDD9 antibody (Cat#AGI2222, 1:2,000). Green, isotype control; red, NEDD9.