

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NEDD9/CASL in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) NEDD4 or rhNEDD8 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 584825
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human NEDD9/CASL Lys153-Asn366 Accession # Q14511
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

NEDD9 (also HEF1 and CASL) is a 93 kDa (predicted) member of the CAS family of proteins. It is widely expressed, and serves to integrate integrin β1 and BCR signaling with cell mitotic pathways. Human NEDD9 is 834 amino acids (aa) in length. It contains one SH3 domain (aa 3-65), a Tyr-rich SH2-binding region (aa 90-350), one Ser-rich four α-helix bundle protein interaction site (aa 350-650), and an HLH motif that mediates Cas protein dimerization (aa 710-760). NEDD9 usually runs at 105 or 115 kDa in SDS-PAGE due to phosphorylation. It is also cleaved near Leu361 to generate an active N-terminal 55 kDa fragment. One isoform shows a deletion of aa 155-188, while two others show 20 or 7 aa substitutions for aa 155-834 or 1-153, respectively. Over aa 153-366, human and mouse NEDD9 share 85% aa identity.

PRODUCT SPECIFIC NOTICES

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