Human NEDD9/CASL Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF5459

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human NEDD9 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human NEDD9 Lys153-Asn366 Accession # Q14511
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

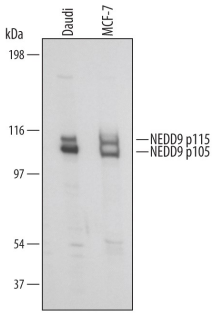
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human NEDD9 by Western Blot. Western blot shows lysates of Daudi human Burkitt's lymphoma cell line and MCF-7 human breast cancer cell line. PVDF membrane was probed with 1 µg/mL of Human NEDD9 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5459) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for NEDD9 at approximately 105 and 110 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

NEDD9 (also HEF1 and Cas-L) 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 and 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 and seven aa substitutions for aa 155-834 and 1-153, respectively. Over aa 153-366, human and mouse NEDD9 share 85% aa identity.

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