

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects endogenous human NEDD9 in Western blots.                                                                                                                                                                                                                            |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human NEDD9<br>Lys153-Asn366<br>Accession # Q14511                                                                                                                                                                                      |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### 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.

#### PRODUCT SPECIFIC NOTICES

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