

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat NEDD4 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human NEDD4 Asn630-Gly768 Accession # P46934
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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

NEDD4 (Neural precursor cell-expressed developmentally down-regulated gene 4-1; also RPF1) is a 115-120 kDa member of the HECT E3 ubiquitin ligase family of proteins. The NEDD4 gene is widely expressed, and serves as a complement to a related gene product termed NEDD4-2/NEDD4L. Both molecules ubiquitinate multiple proteins. NEDD4-1 acts preferentially on PTEN, tumor suppressors and endocytic proteins, while NEDD4-2 acts preferentially on membrane transporters. Human NEDD4-1 is 900 amino acids (aa) in length. It contains one PKC region (aa 20-124), four WW domains (aa 196-505) and one E3 HECT domain (aa 543-897). Caspase cleavage after Asp197 generates a 95 kDa C-terminal, and smaller but variable sized N-terminal fragment. There are multiple splice forms. Two show a 516 aa substitution for aa 1-169 and 1-97, respectively, while a third shows the latter substitution coupled to a deletion of aa 170-185. Over aa 211-349, human NEDD4-1 shares 83% aa identity to mouse NEDD4-1 and less than 25% aa identity with human NEDD4-2.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc., and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.