

DESCRIPTION

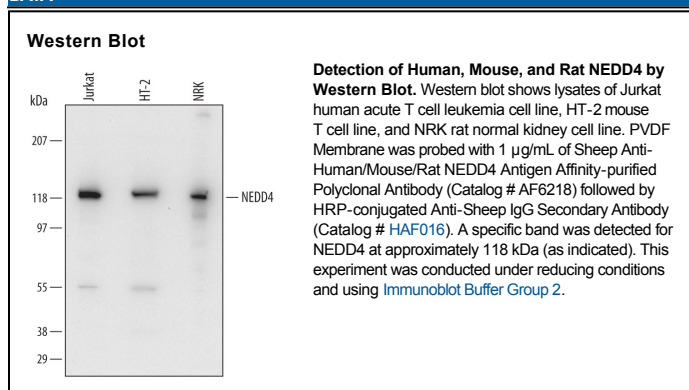
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat NEDD4 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human NEDD4 Asn630-Gly768 Accession # P46934
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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	0.25 µg/mL	See Below

DATA



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. <ul style="list-style-type: none"> • 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

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.