

Recombinant Mouse Nedd4 Protein, Myc/DDK-tagged

Cat. No. Nedd4-4359M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length neural precursor cell expressed, developmentally down-regulated 4 (Nedd4), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Specifically ubiquitinates 'Lys-63' in target proteins. Monoubiquitinates IGF1R at multiple sites, thus leading to receptor internalization and degradation in lysosomes. Ubiquitinates FGFR1, leading to receptor internalization and degradation in lysosomes. Involved in ubiquitination of ERBB4 intracellular domain E4ICD1 Predominantly involved in ubiquitination of membrane bound forms of ERBB4 rather than processed precursors and intermediate membrane-anchored 80 kDa fragments (m80HER4), with a lesser role in ubiquitination of ERBB4 intracellular domain E4ICD1 Promotes ubiquitination of RAPGEF2. Involved in the pathway leading to the degradation of VEGFR-2/KDFR, independently of its ubiquitin-ligase activity. Part of a signaling complex composed of NEDD4, RAP2A and TNIK which regulates neuronal dendrite extension and arborization during development. Ubiquitinates TNK2 and regulates EGF-induced degradation of EGFR and TNF2. Involved in the ubiquitination of ebola virus VP40 protein and this ubiquitination plays a role in facilitating viral budding. Ubiquitinates BRAT1 and this ubiquitination is enhanced in the presence of

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	NDFIP1.
Molecular Mass	102.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Nedd4 neural precursor cell expressed, developmentally down-regulated 4 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Nedd4
Synonyms	NEDD4; neural precursor cell expressed, developmentally down-regulated 4; E3 ubiquitin-protein ligase NEDD4; NEDD-4; neural precursor cell expressed, developmentally down-regulated gene 4; neural precursor cell expressed, developmentally down-regulated gene 4; neural precursor cell expressed, developmentally down-regulated gene 4a; neural precursor cell expressed developmentally down-regulated protein 4; Nedd4a; Nedd4-1; AA959633; AL023035; AU019897; mKIAA0093; E430025J12Rik
Gene ID	17999

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mRNA Refseq	NM_010890
Protein Refseq	NP_035020
UniProt ID	P46935

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