

## Recombinant Mouse Nedd4 Protein, Myc/DDK-tagged

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	<p>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</p> <p>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</p> <p>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</p>

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

## GENE INFORMATION

<b>Gene Name</b>	Nedd4 neural precursor cell expressed, developmentally down-regulated 4 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Nedd4
<b>Synonyms</b>	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
<b>Gene ID</b>	17999

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mRNA Refseq [NM\\_010890](#)

Protein Refseq [NP\\_035020](#)

UniProt ID [P46935](#)

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