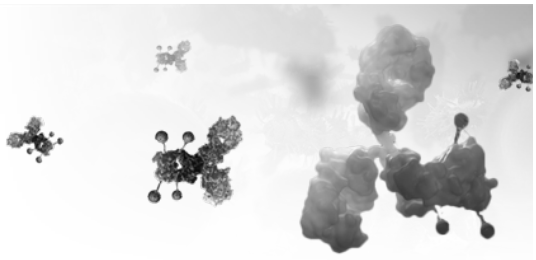

Human NEDD4 peptide (DAG-P1798)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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. Involved in the pathway leading to the degradation of VEGFR-2/KDFR, independently of its ubiquitin-ligase activity. Monoubiquitinates IGF1R at multiple sites, thus leading to receptor internalization and degradation in lysosomes. According to PubMed:18562292 the direct link between NEDD4 and PTEN regulation through polyubiquitination described in PubMed:17218260 is questionable. Involved in ubiquitination of ERBB4 intracellular domain E4ICD. Involved in the budding of many viruses. 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.
Conjugate	Unconjugated
Sequence Similarities	Contains 1 HECT (E6AP-type E3 ubiquitin-protein ligase) domain.Contains 4 WW domains.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	NEDD4 neural precursor cell expressed, developmentally down-regulated 4, E3 ubiquitin protein ligase [Homo sapiens (human)]
Official Symbol	NEDD4
Synonyms	NEDD4; neural precursor cell expressed, developmentally down-regulated 4, E3 ubiquitin protein ligase; RPF1; NEDD4-1; E3 ubiquitin-protein ligase NEDD4; receptor-potentiating factor

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	1; cell proliferation-inducing gene 53 protein; neural precursor cell expressed developmentally down-regulated protein 4;
Entrez Gene ID	4734
mRNA Refseq	NM_001284338.1
Protein Refseq	NP_001271267.1
UniProt ID	P46934
Chromosome Location	15q
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination and Proteasome degradation, organism-specific biosystem; Antiviral mechanism by IFN-stimulated genes, organism-specific biosystem; Class I MHC mediated antigen processing and presentation, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Downregulation of ERBB4 signaling, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved
Function	RNA polymerase binding; beta-2 adrenergic receptor binding; phosphoserine binding; phosphothreonine binding; proline-rich region binding; proline-rich region binding; protein binding; protein domain specific binding; sodium channel inhibitor activity; ubi

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