

ARG55793 anti-NEDD4 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes NEDD4
Tested Reactivity	Hu, Ms
Predict Reactivity	Rat
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NEDD4
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 1288-1319 (C-terminus) of Human NEDD4.
Conjugation	Un-conjugated
Alternate Names	NEDD-4; EC 6.3.2.-; RPF1; E3 ubiquitin-protein ligase NEDD4; NEDD4-1; Cell proliferation-inducing gene 53 protein; Neural precursor cell expressed developmentally down-regulated protein 4

Application Instructions

Application table	Application	Dilution
	FACS	1:10 - 1:50
	IHC-P	1:50 - 1:100
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	NIH/3T3	

Properties

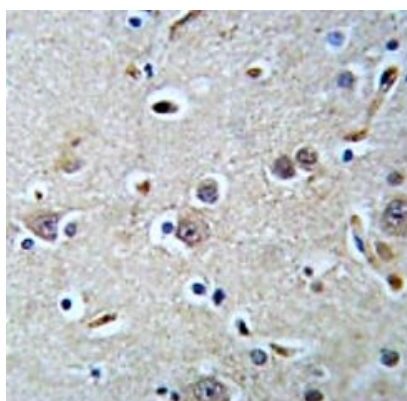
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

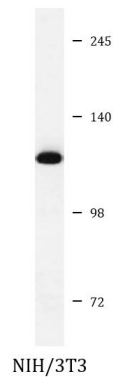
Database links	GeneID: 17999 Mouse GeneID: 4734 Human Swiss-port # P46934 Human Swiss-port # P46935 Mouse
Gene Symbol	NEDD4
Gene Full Name	neural precursor cell expressed, developmentally down-regulated 4, E3 ubiquitin protein ligase
Function	E3 ubiquitin-protein ligase which accepts ubiquitin from an 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/KDR, independently of its ubiquitin-ligase activity. Monoubiquitinates IGF1R at multiple sites, thus leading to receptor internalization and degradation in lysosomes. Ubiquitinates FGFR1, leading to receptor internalization and degradation in lysosomes. Promotes ubiquitination of RAPGEF2. The direct link between NEDD4 and PTEN regulation through polyubiquitination 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 TNK2 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 NDFIP1. [UniProt]
Calculated Mw	149 kDa
PTM	Auto-ubiquitinated.
Cellular Localization	Cytoplasm. Cell membrane; Peripheral membrane protein Note=Recruited to the plasma membrane by GRB10. Once complexed with GRB10 and IGF1R, follows IGF1R internalization, remaining associated with early endosomes. Uncouples from IGF1R-containing endosomes before the sorting of the receptor to the lysosomal compartment (By similarity). May be recruited to exosomes by NDFIP1.

Images



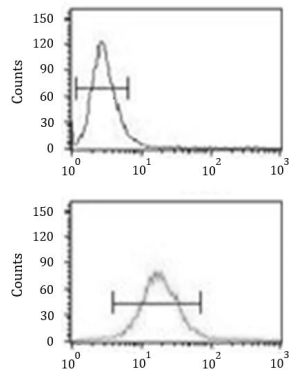
ARG55793 anti-NEDD4 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded brain tissue stained with ARG55793 anti-NEDD4 antibody.



ARG55793 anti-NEDD4 antibody WB image

Western blot: 35 µg of NIH/3T3 cell lysate stained with ARG55793 anti-NEDD4 antibody.



ARG55793 anti-NEDD4 antibody FACS image

Flow Cytometry: NCI-H460 cells stained with ARG55793 anti-NEDD4 antibody (bottom histogram) or without primary antibody control (top histogram), followed by incubation with FITC-labelled secondary antibody.