

ARG58546 anti-Dynamin 2 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Dynamin 2
Tested Reactivity	Hu, Ms
Tested Application	FACS, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Dynamin 2
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 213-247 of Human Dynamin 2.
Conjugation	Un-conjugated
Alternate Names	DYNII; LCCS5; DYN2; CMT2M; CMTDI1; EC 3.6.5.5; CMTDIB; Dynamin-2; DI-CMTB

Application Instructions

Application table	Application	Dilution
	FACS	1:25
	ICC/IF	1:25
	WB	1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HeLa	

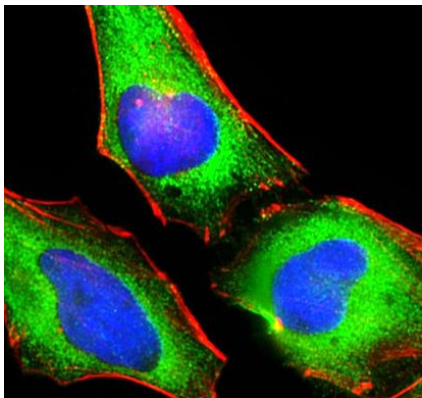
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
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

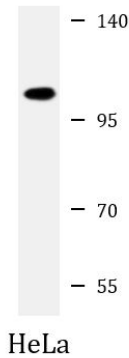
Gene Symbol	DNM2
Gene Full Name	dynamamin 2
Background	Dynamamins represent one of the subfamilies of GTP-binding proteins. These proteins share considerable sequence similarity over the N-terminal portion of the molecule, which contains the GTPase domain. Dynamamins are associated with microtubules. They have been implicated in cell processes such as endocytosis and cell motility, and in alterations of the membrane that accompany certain activities such as bone resorption by osteoclasts. Dynamamins bind many proteins that bind actin and other cytoskeletal proteins. Dynamamins can also self-assemble, a process that stimulates GTPase activity. Five alternatively spliced transcripts encoding different proteins have been described. Additional alternatively spliced transcripts may exist, but their full-length nature has not been determined. [provided by RefSeq, Jun 2010]
Function	Microtubule-associated force-producing protein involved in producing microtubule bundles and able to bind and hydrolyze GTP. Plays a role in the regulation of neuron morphology, axon growth and formation of neuronal growth cones (By similarity). Plays an important role in vesicular trafficking processes, in particular endocytosis. Involved in cytokinesis. [UniProt]
Calculated Mw	98 kDa
PTM	Phosphorylation at Ser-764 by CDK1 is greatly increased upon mitotic entry. It regulates cytokinesis downstream of calcineurin, and does not affect clathrin-mediated endocytosis. Dephosphorylated by calcineurin/PP2 (By similarity). Phosphorylated on tyrosine residues after activation of SRC (By similarity). [UniProt]

Images



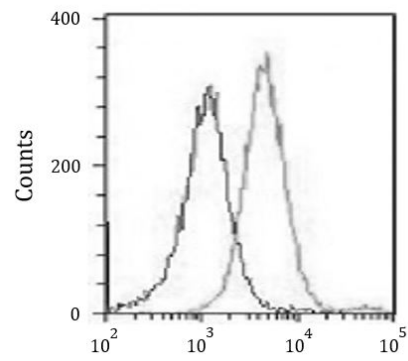
ARG58546 anti-Dynamamin 2 antibody ICC/IF image

Immunofluorescence: 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa cells stained with ARG58546 anti-Dynamamin 2 antibody (green) at 1:25 dilution. Cytoplasmic actin is detected with Dylight® 554 Phalloidin at 1:100 dilution (red). DAPI (blue) for nuclear staining.



ARG58546 anti-Dynamamin 2 antibody WB image

Western blot: 20 µg of HeLa cell lysate stained with ARG58546 anti-Dynamamin 2 antibody at 1:2000 dilution.



ARG58546 anti-Dynamin 2 antibody FACS image

Flow Cytometry: HeLa cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% BSA to block non-specific protein-protein interactions and stained with ARG58546 anti-Dynamin 2 antibody (right histogram) at 1:25 dilution for 60 min at 37°C, followed by incubation with DyLight® 488 labelled secondary antibody. Isotype control antibody (left histogram) was Rabbit IgG (1 μ g/ 10^6 cells) used under the same conditions. Acquisition of >10000 events was performed.