

DNM2 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
 Catalog # AP22125a-200 □

Specification

DNM2 Antibody (N-Term) - Product info

Application	WB, FC, IF
Primary Accession	P50570
Other Accession	A6H7I5 , P39054
Reactivity	Human, Mouse
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit Ig
Clone Names	RB56171
Calculated MW	98064

DNM2 Antibody (N-Term) - Additional info

Gene ID 1785

Other Names

Dynamin-2, 3.6.5.5, DNM2, DYN2

Target/Specificity

This DNM2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 213-247 amino acids from human DNM2.

Dilution

IF~~1:25
 FC~~1:25
 WB~~1:2000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

DNM2 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

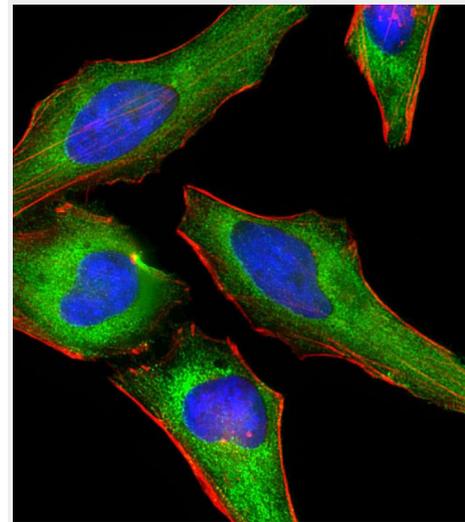
DNM2 Antibody (N-Term) - Protein Information

Name DNM2

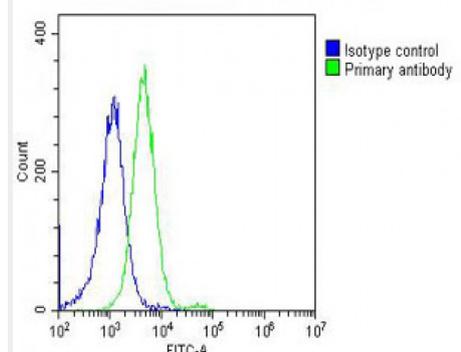
Synonyms DYN2

Function

Microtubule-associated force-producing protein involved in producing microtubule bundles and able to bind and hydrolyze



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human cervical epithelial adenocarcinoma cell line) cells labeling DNM2 with AP22125a at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-rabbit IgG (NK179883) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm staining on HeLa cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (PD18466410) at 1/100 dilution (red). The nuclear counter stain is DAPI (blue).



Overlay histogram showing HeLa cells stained with AP22125a (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block

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 (PubMed:12498685). Regulates maturation of apoptotic cell corpse-containing phagosomes by recruiting PIK3C3 to the phagosome membrane (By similarity).

Cellular Location

Cytoplasm. Cytoplasm, cytoskeleton. Cell junction {ECO:0000250|UniProtKB:P39052}. Membrane, clathrin-coated pit {ECO:0000250|UniProtKB:P39052}. Cell junction, synapse, postsynaptic cell membrane, postsynaptic density. Cell junction, synapse. Midbody. Cell projection, phagocytic cup {ECO:0000250|UniProtKB:P39054}. Cytoplasmic vesicle, phagosome membrane {ECO:0000250|UniProtKB:P39054}; Peripheral membrane protein {ECO:0000250|UniProtKB:P39054}. Note=Colocalizes with CTTN at the basis of filopodia in hippocampus neuron growth zones (By similarity). Microtubule-associated. Also found in the postsynaptic density of neuronal cells. Co-localizes with PIK3C3 and RAB5A to the nascent phagosome (By similarity) {ECO:0000250|UniProtKB:P39052, ECO:0000250|UniProtKB:P39054}

Tissue Location

Ubiquitously expressed.

DNM2 Antibody (N-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [□ Western Blot](#)
- [□ Blocking Peptides](#)
- [□ Dot Blot](#)
- [□ Immunohistochemistry](#)
- [□ Immunofluorescence](#)
- [□ Immunoprecipitation](#)
- [□ Flow Cytometry](#)
- [□ Cell Culture](#)

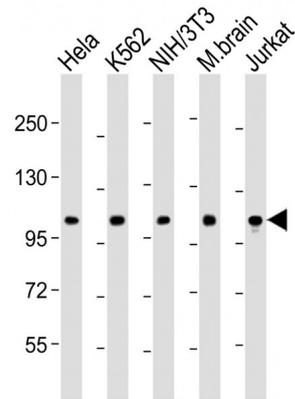
DNM2 Antibody (N-Term) - Background

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.

DNM2 Antibody (N-Term) - References

Diatloff-Zito C., et al. Gene 163:301-306(1995). Ota T., et al. Nat. Genet. 36:40-45(2004). Grimwood J., et al. Nature 428:529-535(2004). Okamoto P.M., et al. J. Biol. Chem. 276:48458-48465(2001). Thompson H.M., et al. Curr. Biol. 12:2111-2117(2002).

non-specific protein-protein interactions followed by the antibody (AP22125a, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >10, 000 events was performed.



All lanes : Anti-DNM2 Antibody (N-Term) at 1:2000 dilution Lane 1: HeLa whole cell lysate Lane 2: K562 whole cell lysate Lane 3: NIH/3T3 whole cell lysate Lane 4: mouse brain lysate Lane 5: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 98 kDa Blocking/Dilution buffer: 5% NFDN/TBST.