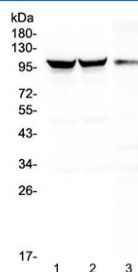


Dynamin 1 Antibody / DNM1 (RQ4209)

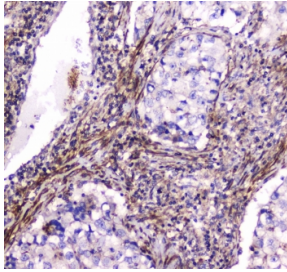
Catalog No.	Formulation	Size
RQ4209	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

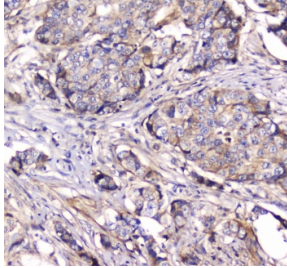
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q05193
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 1-2ug/ml Flow Cytometry : 1-3ug/10 ⁶ cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This Dynamin 1 antibody is available for research use only.



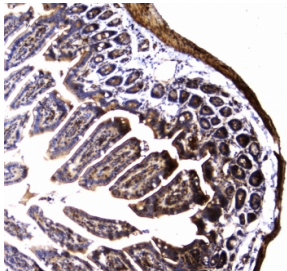
Western blot testing of 1) rat brain, 2) mouse brain and 3) mouse NIH3T3 lysate with Dynamin 1 antibody at 0.5ug/ml. Predicted molecular weight ~97 kDa.



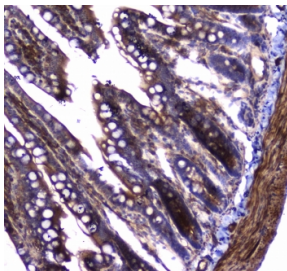
IHC testing of FFPE human lung cancer tissue with Dynamin 1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



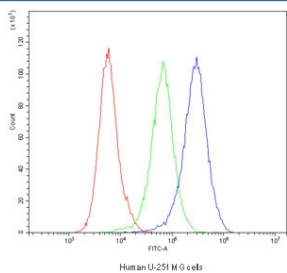
IHC testing of FFPE human breast cancer tissue with Dynamin 1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



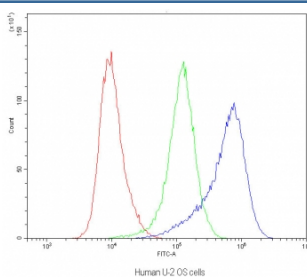
IHC testing of FFPE mouse small intestine tissue with Dynamin 1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



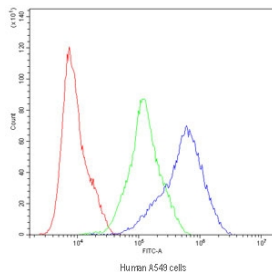
IHC testing of FFPE rat small intestine tissue with Dynamin 1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Flow cytometry testing of human U-251 MG cells with Dynamin 1 antibody at 1ug/10⁶ cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=Dynamin 1 antibody.



Flow cytometry testing of human U-2 OS cells with Dynamin 1 antibody at 1ug/10⁶ cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=Dynamin 1 antibody.



Flow cytometry testing of human A549 cells with Dynamin 1 antibody at 1ug/10⁶ cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=Dynamin 1 antibody.

Description

Dynamin-1 is a protein that in humans is encoded by the DNM1 gene. This gene encodes a member of the dynamin subfamily of GTP-binding proteins. The encoded protein possesses unique mechanochemical properties used to tubulate and sever membranes, and is involved in clathrin-mediated endocytosis and other vesicular trafficking processes. Actin and other cytoskeletal proteins act as binding partners for the encoded protein, which can also self-assemble leading to stimulation of GTPase activity. More than sixty highly conserved copies of the 3' region of this gene are found elsewhere in the genome, particularly on chromosomes Y and 15. Alternatively spliced transcript variants encoding different isoforms have been described.

Application Notes

Optimal dilution of the Dynamin 1 antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids W616-D667 was used as the immunogen for the Dynamin 1 antibody.

Storage

After reconstitution, the Dynamin 1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.