

Rabbit Dynamin 1 Polyclonal Antibody | anti-DNM1 antibody

Anti-Dynamin 1 Picoband antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19160	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Immunocytochemistry, Western Blot

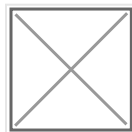
PRODUCT SYNONYMS

Dynamin 1; Polyclonal Antibody; Anti-Dynamin 1 Picoband antibody; Dynamin-1; DNM1; DNM; anti-DNM1 antibody

PRODUCT SPECIFICATIONS

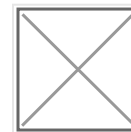
Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	851
Applicable Applications for anti-DNM1 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ICC (Immunocytochemistry), WB (Western Blot)
Application Notes	WB: 0.1-0.5µg/ml Immunohistochemistry (Paraffin-embedded Section): 0.5-1µg/ml Immunohistochemistry(Frozen Section): 0.5-1µg/ml ICC: 0.5-1µg/ml FC/FACS: 1-3g/1x10 ⁶ cells Direct ELISA: 0.1-0.5µg/ml
Immunogen	E Coli-derived human Dynamin 1 recombinant protein (Position: W616-D667).
Subcellular Localization	Cytoplasm.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500µg/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ .
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM (Flow Cytometry)

Figure 8. Flow Cytometry analysis of U2OS cells using anti-Dynamin 1 antibody (AAA19160). Overlay histogram showing U2OS cells stained with AAA19160 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DNM1 Antibody (AAA19160, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



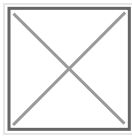
FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of A549 cells using anti-Dynamin 1 antibody (AAA19160). Overlay histogram showing A549 cells stained with AAA19160 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Dynamin 1 Antibody (AAA19160, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



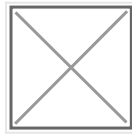
FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of U251 cells using anti-Dynamin 1 antibody (AAA19160).Overlay histogram showing U251 cells stained with AAA19160 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Dynamin 1 Antibody (AAA19160,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 5. IHC analysis of Dynamin 1 using anti-Dynamin 1 antibody (AAA19160).Dynamin 1 was detected in paraffin-embedded section of rat small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Dynamin 1 Antibody (AAA19160) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of Dynamin 1 using anti-Dynamin 1 antibody (AAA19160).Dynamin 1 was detected in paraffin-embedded section of mouse small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Dynamin 1 Antibody (AAA19160) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of Dynamin 1 using anti-Dynamin 1 antibody (AAA19160).Dynamin 1 was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Dynamin 1 Antibody (AAA19160) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-DNM1 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. Protein Function: Microtubule-associated force-producing protein involved in producing microtubule bundles and able to bind and hydrolyze GTP. Most probably involved in vesicular trafficking processes. Involved in receptor-mediated endocytosis.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	56549117
NCBI GeneID	1759
NCBI Accession #	NP_001005336.1
NCBI GenBank Nucleotide #	NP_001005336.1
UniProt Accession #	Q05193; Q5SYX0; Q5SYX2; Q6P3T6; Q86VD2; A6NLM6
Molecular Weight	95,895 Da
NCBI Official Full Name	dynamin-1 isoform 2
NCBI Official Synonym Full Names	dynamin 1
NCBI Official Symbol	DNM1
NCBI Official Synonym Symbols	DNM; EIEE31
NCBI Protein Information	dynamin-1
UniProt Protein Name	Dynamin-1

UniProt Gene Name	DNM1
UniProt Synonym Gene Names	DNM

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/dynamin-1-antibody-flow-cytometry-immunohistochemistry-immunocytochemistry-western-blot-elisa/19160>