

Product datasheet for **TA356977**

Dynamin 1 (DNM1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human DNM1
Specificity:	Expected reactivity: Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rat, Zebrafish Homology: Cow: 93%; Dog: 100%; Guinea Pig: 100%; Horse: 86%; Human: 100%; Mouse: 100%; Rat: 100%; Zebrafish: 86%
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	95kDa
Gene Name:	dynamin 1
Database Link:	NP_004399 Entrez Gene 13429 MouseEntrez Gene 140694 RatEntrez Gene 1759 Human P39053



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Background:

DNM1 is a member of the dynammin subfamily of GTP-binding proteins. The 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 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. This gene encodes a member of the dynammin 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.

Synonyms:

DNM

Protein Families:

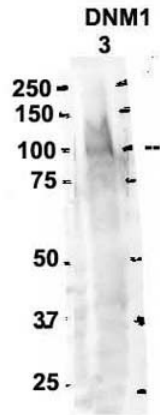
Druggable Genome

Protein Pathways:

Endocytosis, Fc gamma R-mediated phagocytosis

Product images:

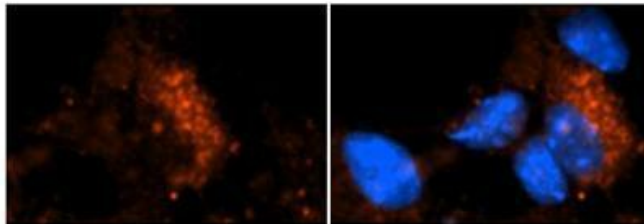
WB Suggested Anti-DNM1 Antibody Titration: 0.2-1 ug/ml
ELISA Titer: 1:12500
Positive Control: Human brain



See Immunoblot 2 Data for more information.

Sample Type: 3. rat brain extract (80ug)
Primary Antibody Dilution: 2ug/ml
Secondary Antibody: IRDye 800CW goat anti-rabbit from Li-COR Bioscience
Secondary Antibody Dilution: 1: 20,000
Image Submitted by: Yuzhi Chen
 University of Arkansas for Medical Science

DNM1



Antibody--RED
 DAPI--Blue

Researcher: Dr. Yuzhi Chen, University of Arkansas for Medical Science
 Application: IHC
 Species+tissue/cell type: Mouse brain stem cells
 Primary antibody dilution: 1:500
 Secondary antibody: Goat anti-rabbit Alexa-Fluor 594
 Secondary antibody dilution: 1:1000

See IHC 1 Data and Customer Feedback for more information