Dynamin 1 (DNM1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Dynamin 1 (DNM1), Polyclonal Antibody
Full Product Name	Anti-Human Dynamin 1 DyLight 550 conjugated Antibody
Product Gene Name	anti-DNM1 antibody
Product Synonym Names	Rabbit IgG Polyclonal Anti-Human Dynamin 1 Antibody DyLight 550 Conjugated, Flow Validated; Dynamin-1; DNM1; DNM; Dynamin 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	Immunogen Affinity Purified
Specificity	No cross reactivity with other proteins.
Preparation and Storage	Store at 2-8 degree C for one year. Protect from light. Do not freeze.
Molecular Weight	97,263 Da
3D Structure	ModBase 3D Structure for Q05193
Immunogen	E Coli-derived human Dynamin 1 recombinant protein (Position: W616-D667).
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-DNM1 antibody	Flow Cytometry (FC/FACS)
Application Notes for anti-DNM1 antibody	FC/FACS: 1-3ug/1x106 cells
Related Product Information for anti-DNM1 antibody	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.
Product References and Citations for anti-DNM1 antibody	1. Dhindsa, R. S., Bradrick, S. S., Yao, X., Heinzen, E. L., Petrovski, S., Krueger, B. J., Johnson, M. R., Frankel, W. N., Petrou, S., Boumil, R. M., Goldstein, D. B. Epileptic encephalopathy-causing mutations in DNM1 impair synaptic vesicle endocytosis. Neurol. Genet. 1: e4, 2015. 2. EuroEPINOMICS-RES Consortium, Epilepsy Phenome/Genome Project, Epi4K Consortium. De novo mutations in synaptic transmission genes including DNM1 cause epileptic encephalopathies. Am. J. Hum. Genet. 95: 360-370, 2014.
Other Notes	Small volumes of anti-DNM1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DNM1 purchase	MBS1751425 is an antibody targeting DNM1. Also known as Anti-Human Dynamin 1 DyLight 550 conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DNM1. It may not necessarily be applicable to this product.

NCBI GI #	56549117
NCBI GeneID	1759
NCBI Accession #	NP_001005336.1
UniProt Primary Accession #	Q05193
UniProt Secondary Accession #	Q5SYX0; Q5SYX2; Q6P3T6; Q86VD2; A6NLM6
UniProt Related Accession #	Q05193
GenBank Nucleotide #	NM_001005336.2
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
UniProt Protein Name	Dynamin-1
Protein Family	Dynamin
UniProt Gene Name	DNM1
UniProt Synonym Gene Names	DNM
NCBI Protein Information	dynamin-1
NCBI Summary for DNM1	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. [provided by RefSeq, Jul 2008]
UniProt Comments for DNM1	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.
Research Articles on DNM1	**1.** The twin siblings exhibit mild to moderate intellectual disability and autistic symptoms but no epileptic encephalopathy. Exome sequencing revealed a genetic variant, c.1603A>G (p.Lys535Glu), in the PH domain of dynamin 1. The twin sisters studied here share the de novo variant, c.1603A>G (p.Lys535Glu) in exon 15 of DNM1, classified as likely pathogenic.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-dnm1-human-antibody/dynamin-1/1751425