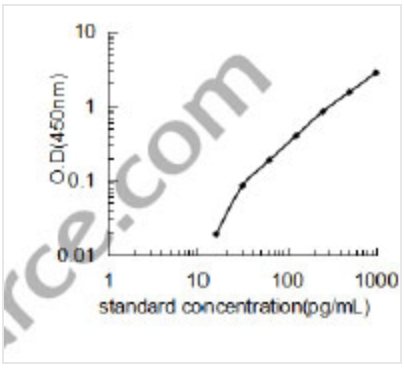
# Dynamin-2 (DNM2) ELISA Kit for Mouse

## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | Dynamin-2 (Dnm2), ELISA Kit |
| **Full Product Name** | Mouse Dynamin-2 ELISA Kit |
| **Product Gene Name** | Dnm2 elisa kit |
| **Product Synonym Names** | Dynamin-2; Dynamin UDNM; Dnm2; Dyn2; 3.6.5.5 |
| **Species Reactivity** | Mouse |
| **Samples** | Serum, plasma, tissue homogenates, cell culture supernates or other biological fluids |
| **Detection Range** | 15.6-1000 pg/mL |
| **Sensitivity** | < 7.92 pg/mL |
| **Specificity** | Recombinant and natural Mouse Dynamin-2 |
| **Preparation and Storage** | For long term storage, please store the entire kit at -20 degree C. |
| **Inter-assay Precision** | Inter-Assay CV: <=7.6% |
| **Intra-assay Precision** | Intra-Assay CV: <=4.6% |
| **Molecular Weight** | 97,733 Da |
| **3D Structure** | ModBase 3D Structure for P39054 |
| **Related Product Information for Dnm2 elisa kit** | Intended Uses: This immunoassay kit allows for the in vitro quantitative determination of target antigen concentrations in serum, plasma, tissue homogenates, cell culture supernates or other biological fluids.<br><br>Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to target antigen. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for target antigen and then avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB substrate solution is added to each well. Only those wells that contain target antigen, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of target antigen in the samples is then determined by comparing the O.D. of the samples to the standard curve. |
| **Other Notes** | Small volumes of Dnm2 elisa kit 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 Dnm2 purchase** | MBS2882065 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Dynamin-2 (Dnm2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing Dnm2. The ELISA analytical biochemical technique of the MBS2882065 kit is based on Dnm2 antibody-Dnm2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect Dnm2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, Dnm2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%). |




**Typical Testing Data/Standard Curve (for reference only) of Dnm2 elisa kit**

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Dnm2. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 359751391 |
| **NCBI GeneID** | 13430 |
| **NCBI Accession #** | NP_001240822.1 |
| **UniProt Primary Accession #** | P39054 |
| **UniProt Secondary Accession #** | Q9DBE1 |
| **UniProt Related Accession #** | P39054 |
| **GenBank Nucleotide #** | NM_001253893.1 |
| **NCBI Official Full Name** | dynamin-2 isoform 1 |
| **NCBI Official Synonym Full Names** | dynamin 2 |
| **NCBI Official Symbol** | Dnm2 |
| **NCBI Official Synonym Symbols** | Dyn2; Udnm; b2b2159Clo |
| **UniProt Protein Name** | Dynamin-2 |
| **UniProt Synonym Protein Names** | Dynamin UDNM |
| **Protein Family** | Dynamin |
| **UniProt Gene Name** | Dnm2 |
| **UniProt Synonym Gene Names** | Dyn2 |
| **UniProt Entry Name** | DYN2_MOUSE |
| **NCBI Protein Information** | dynamin-2 |

| | |
|---|---|
| **UniProt Comments for Dnm2** | DYN2: a cytoplasmic microtubule-associated force-producing protein involved in producing microtubule bundles and able to bind and hydrolyze GTP. Most probably involved in vesicular trafficking processes. May mediate the conventional clathrin-mediated uptake of surface receptors. Expressed in the postsynaptic density of neuronal cells. Two alternatively spliced isoforms have been described.<br><br>Protein type: EC 3.6.5.5; Motility/polarity/chemotaxis; Hydrolase; Microtubule-binding; Vesicle<br><br>Cellular Component: cell junction; centrosome; clathrin-coated endocytic vesicle; coated pit; cytoplasm; cytoskeleton; cytosol; endosome; focal adhesion; Golgi apparatus; Golgi membrane; growth cone; lamellipodium; membrane; microtubule; nucleus; perinuclear region of cytoplasm; phagocytic cup; photoreceptor inner segment; plasma membrane; postsynaptic membrane; protein complex; synapse; trans-Golgi network<br><br>Molecular Function: D2 dopamine receptor binding; GTP binding; GTPase activity; hydrolase activity; nitric-oxide synthase binding; nucleotide binding; protein binding; protein complex binding; protein kinase binding; SH3 domain binding; WW domain binding<br><br>Biological Process: endocytosis; G-protein coupled receptor internalization; Golgi to plasma membrane transport; negative regulation of transforming growth factor beta receptor signaling pathway; neurite morphogenesis; positive regulation of endocytosis; positive regulation of nitric oxide biosynthetic process; positive regulation of phagocytosis; receptor internalization; receptor-mediated endocytosis; regulation of axon extension; regulation of Rac protein signal transduction; transferrin transport |
| **Research Articles on Dnm2** | **1.** Dynamin 2 might participate in the early embryonic development through an actin-based cytokinesis |
| **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.<br><br>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/dnm2-mouse-elisa-kits/dynamin-2/2882065