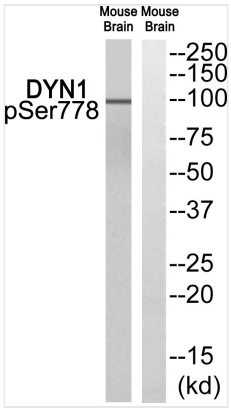
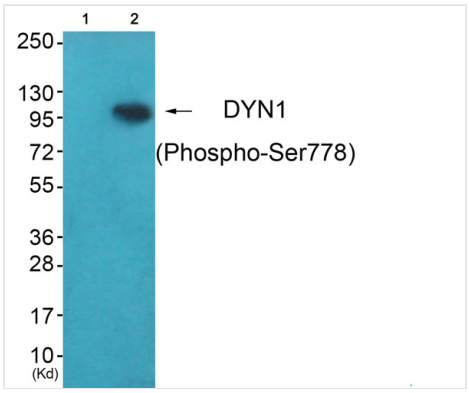
DYN1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DYN1, Polyclonal Antibody
Full Product Name	DYN1 (Phospho-Ser778) Antibody
Product Gene Name	anti-DYN1 antibody
Product Synonym Names	B-dynamin; D100; DNM; DNM1; Dynamin BREDNM19; Dynamin; brain; dynamin-1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy usi
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of DYN1 only when phosphorylated at serine 778.
Preparation and Storage	Store at -20 degree C
Molecular Weight	95,895 Da
OMIM	602377
3D Structure	ModBase 3D Structure for Q05193
Immunogen Type	peptide
Immunogen Description	Peptide sequence around phosphorylation site of serine 778 (T-S-S(p)-P-T) derived from Human DYN1.
Modification	Phospho-Ser778
Target Name	DYN1
Product Categories/Family for anti-DYN1 antibody	Phospho-specific Ab
Applications Tested/Suitable for anti-DYN1 antibody	Western Blot (WB)
Application Notes for anti-DYN1 antibody	Western blotting: 1:500~1:3000
Related Product Information for anti-DYN1 antibody	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.
Other Notes	Small volumes of anti-DYN1 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 DYN1 purchase	MBS9412275 is an antibody targeting DYN1. Also known as DYN1 (Phospho-Ser778) Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-DYN1 antibody
Western blot analysis of extracts from Mouse brain cells, using DYN1 (Phospho-Ser778) antibody. The lane on the right is treated with the synthesized peptide.



Western Blot (WB) of anti-DYN1 antibody
Western blot analysis of extracts from HepG2 cells (Lane 2), using DYN1 (Phospho-Ser778) Antibody. The lane on the left is treated with synthesized peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DYN1. 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
UniProt Gene Name	DNM1
UniProt Synonym Gene Names	DNM
UniProt Entry Name	DYN1_HUMAN
NCBI Protein Information	dynamin-1
NCBI Summary for DYN1	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 DYN1	DYN1: a microtubule-associated force-producing protein involved in producing microtubule bundles and able to bind and hydrolyze GTP. Most probably involved in vesicular trafficking processes. Concentrates within the presynaptic compartment and may participate in specialized neuronal functions such as rapid synaptic vesicle recycling. Part of a protein network that controls nucleation of actin from membranes. Contains one PH domain. Protein type: Hydrolase; Motility/polarity/chemotaxis; Vesicle; Motor; Microtubule-binding; EC 3.6.5.5 Chromosomal Location of Human Ortholog: 9q34 Cellular Component: microtubule; membrane coat; plasma membrane Molecular Function: GTPase activity; protein C-terminus binding; identical protein binding; protein binding; GTP binding; protein complex binding; nitric-oxide synthase binding; protein kinase binding Biological Process: axon guidance; receptor-mediated endocytosis; endosome organization and biogenesis; receptor internalization; ephrin receptor signaling pathway; endocytosis Disease: Epileptic Encephalopathy, Early Infantile, 31
Research Articles on DYN1	**1.** Data suggest that by binding to both clathrin and F-actin, mammalian actin-binding protein 1 (mAbp1; HIP-55 or SH3P7) is specifically recruited at a late stage of clathrin-coated pits (CCPs) formation, which subsequently recruits dynamin to CCPs.
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