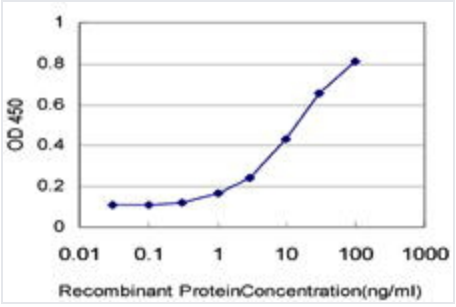
DYM Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	DYM, Monoclonal Antibody
Full Product Name	DYM (Dymeclin, Dyggve-Melchior-Clausen Syndrome Protein, FLJ20071, FLJ90130) (Biotin)
Product Gene Name	anti-DYM antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1C2
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human DYM.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
OMIM	223800
3D Structure	ModBase 3D Structure for Q7RTS9
Immunogen	Partial recombinant corresponding to aa343-431 from human DYM (NP_060123) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	QTSDQATLLLYTLLHQNSNIRTYMLARTDMENLVLPILEILYHVEERNSHHVYMALIILLILTEDDGFNRSIHEVILKNITWYSERVL
Conjugate	Biotin
Product Categories/Family for anti-DYM antibody	Antibodies; Heat Shock Proteins
Applications Tested/Suitable for anti-DYM antibody	ELISA (EIA)
Application Notes for anti-DYM antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-DYM antibody	AHI1, encoding the Jouberin protein, is an alternatively spliced signaling molecule that contains seven Trp-Asp (WD) repeats, an SH3 domain, and numerous SH3-binding sites. The gene is expressed strongly in embryonic hindbrain and forebrain, and AHI1 may be required for both cerebellar and cortical development in humans. Defects in AHI1 are the cause of Joubert syndrome 3, an autosomal recessive brain congenital malformation. The exact function of the AHI1 gene is not yet known.
Other Notes	Small volumes of anti-DYM 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 DYM purchase	MBS6141632 is an antibody targeting DYM. Also known as DYM (Dymeclin, Dyggve-Melchior-Clausen Syndrome Protein, FLJ20071, FLJ90130) (Biotin). Reactive in Human. Host: Mouse.



Testing Data of anti-DYM antibody
Detection limit for recombinant GST tagged DYM is ~1ng/ml as a capture antibody.

ADDITIONAL DETAILS

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

NCBI GI #	157779137
NCBI Accession #	NP_060123
UniProt Primary Accession #	Q7RTS9
GenBank Nucleotide #	NM_017653
NCBI Official Full Name	dymeclin isoform 1
UniProt Protein Name	Dymeclin
UniProt Synonym Protein Names	Dyggve-Melchior-Clausen syndrome protein
Protein Family	Dymeclin
UniProt Gene Name	DYM
UniProt Entry Name	DYM_HUMAN
UniProt Comments for DYM	DYM: Necessary for correct organization of Golgi apparatus. Involved in bone development. Defects in DYM are the cause of Dyggve-Melchior-Clausen syndrome (DMC). DMC is a rare autosomal recessive disorder characterized by short trunk dwarfism, microcephaly and psychomotor retardation. Electron microscopic study of cutaneous cells of affected patients shows dilated rough endoplasmic reticulum, enlarged and aberrant vacuoles and numerous vesicles. DMC is progressive. Defects in DYM are the cause of Smith-McCort dysplasia (SMC). SMC is a rare autosomal recessive osteochondrodysplasia characterized by short limbs and trunk with barrel-shaped chest. The radiographic phenotype includes platyspondyly, generalized abnormalities of the epiphyses and metaphyses, and a distinctive lacy appearance of the iliac crest, features identical to those of Dyggve-Melchior-Clausen syndrome. Belongs to the dymeclin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 18q21.1 Cellular Component: Golgi apparatus; cytoplasm Molecular Function: protein binding; enzyme binding Biological Process: Golgi organization and biogenesis Disease: Dyggve-melchior-clausen Disease; Smith-mccort Dysplasia 1
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