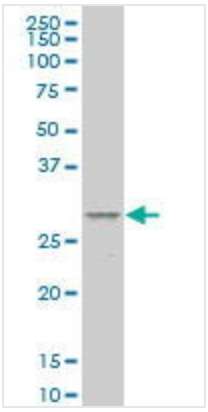
MESP1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	MESP1, Monoclonal Antibody
Full Product Name	MESP1 (Mesoderm Posterior 1 Homolog (mouse), MGC10676, bHLHc5) (FITC)
Product Gene Name	anti-MESP1 antibody
Product Synonym Names	Mesoderm Posterior 1 Homolog (mouse); MGC10676; bHLHc5
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	4B4
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified
Specificity	Recognizes MESP1.
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. FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	28.5
OMIM	BC006219 mRNA
3D Structure	ModBase 3D Structure for Q9BRJ9
Immunogen	MESP1 (NP_061140.1, 1aa-63aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MAQPLCPPLSESWMLSAAWGPTRRPPPSDKDCGRSLVSSPDSWGSTPADSPVASPARPGTLRD
Conjugate	FITC
Product Categories/Family for anti-MESP1 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-MESP1 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-MESP1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MESP1 antibody	MBS6176174 is an antibody targeting MESP1. Also known as MESP1 (Mesoderm Posterior 1 Homolog (mouse), MGC10676, bHLHc5) (FITC). Host: Mouse. Mouse monoclonal antibody raised against a partial recombinant MESP1.
Other Notes	Small volumes of anti-MESP1 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.



Western Blot (WB) of anti-MESP1 antibody
MESP1 monoclonal antibody (M09), clone 4B4 Western Blot analysis of MESP1 expression in COLO 320 HSR (Cat # L020V1).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MESP1. It may not necessarily be applicable to this product.

NCBI GI #	14149724
NCBI GeneID	55897
NCBI Accession #	NP_061140.1
UniProt Primary Accession #	Q9BRJ9
UniProt Secondary Accession #	Q9NSF1; Q9NSF2
UniProt Related Accession #	Q9BRJ9
GenBank Nucleotide #	NM_018670.3
NCBI Official Full Name	mesoderm posterior protein 1
NCBI Official Synonym Full Names	mesoderm posterior bHLH transcription factor 1
NCBI Official Symbol	MESP1
NCBI Official Synonym Symbols	bHLHc5
UniProt Protein Name	Mesoderm posterior protein 1
UniProt Synonym Protein Names	Class C basic helix-loop-helix protein 5; bHLHc5
Protein Family	Mesoderm posterior protein
UniProt Gene Name	MESP1
UniProt Synonym Gene Names	BHLHC5; bHLHc5
NCBI Protein Information	mesoderm posterior protein 1

UniProt Comments for MESP1	MESP1: Transcription factor. Plays a role in the epithelialization of somitic mesoderm and in the development of cardiac mesoderm. Defines the rostrocaudal patterning of the somites by participating in distinct Notch pathways. Protein type: Cell development/differentiation; Transcription factor Chromosomal Location of Human Ortholog: 15q26.1 Cellular Component: nucleus Molecular Function: transcription factor activity Biological Process: cardiac muscle cell differentiation; endothelial cell differentiation; gastrulation; heart looping; lateral mesoderm development; negative regulation of endodermal cell fate specification; negative regulation of mesodermal cell fate specification; negative regulation of transcription, DNA-dependent; neurogenesis; positive regulation of Notch signaling pathway; positive regulation of striated muscle cell differentiation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent
Research Articles on MESP1	**1.** results suggest that pathologic variants in MESP1 may contribute to the development of congenital heart disease (CHD) and that additional protein partners and downstream targets could likewise contribute to the wide range of causes for CHD
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