SRF Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	SRF, Monoclonal Antibody
Full Product Name	SRF (Serum Response Factor (c-fos Serum Response Element-Binding Transcription Factor), MCM1) (MaxLight 650)
Product Gene Name	anti-SRF antibody
Product Synonym Names	Serum Response Factor (c-fos Serum Response Element-Binding Transcription Factor); MCM1
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	4D2
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified
Specificity	Recognizes SRF.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	51,593 Da
OMIM	600589
3D Structure	ModBase 3D Structure for P11831
Immunogen	SRF (NP_003122, 244aa-332aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	TDLTYQVSESDSSGETKDTLKPAFTVTNLPGTTSTIQTAPSTSTTMQVSSGPSFPITNYLAPVSASVSPSAVSSANGTVLKSTGSGPV
Conjugate	MaxLight650
Product Categories/Family for anti-SRF antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-SRF antibody	FLISA, Western Blot (WB)
Application Notes for anti-SRF antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-SRF antibody	This gene encodes a ubiquitous nuclear protein that stimulates both cell proliferation and differentiation. It is a member of the MADS (MCM1, Agamous, Deficiens, and SRF) box superfamily of transcription factors. This protein binds to the serum response element (SRE) in the promoter region of target genes. This protein regulates the activity of many immediate-early genes, for example c-fos, and thereby participates in cell cycle regulation, apoptosis, cell growth, and cell differentiation. This gene is the downstream target of many pathways; for example, the mitogen-activated protein kinase pathway (MAPK) that acts through the ternary complex factors (TCFs). [provided by RefSeq]
Other Notes	Small volumes of anti-SRF 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 SRF purchase	MBS6230093 is an antibody targeting SRF. Also known as SRF (Serum Response Factor (c-fos Serum Response Element-Binding Transcription Factor), MCM1) (MaxLight 650). Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	4507205
NCBI GeneID	6722
NCBI Accession #	NP_003122
UniProt Primary Accession #	P11831
UniProt Secondary Accession #	Q5T648
UniProt Related Accession #	P11831
GenBank Nucleotide #	NM_003131
NCBI Official Full Name	serum response factor isoform 1
NCBI Official Synonym Full Names	serum response factor (c-fos serum response element-binding transcription factor)
NCBI Official Symbol	SRF
NCBI Official Synonym Symbols	MCM1
UniProt Protein Name	Serum response factor
Protein Family	Serum response factor
UniProt Gene Name	SRF
UniProt Synonym Gene Names	SRF
UniProt Entry Name	SRF_HUMAN
NCBI Protein Information	serum response factor
UniProt Comments for SRF	SRF: a transcription factor of the MADS domain family that binds to the serum response element (SRE). Regulates the transcription of immediate early genes including c-fos. Binds DNA as a multimer, probably a dimer. Protein type: Transcription factor; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 6p21.1 Cellular Component: nuclear chromatin; cytoplasm; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; protein binding; protein homodimerization activity; chromatin DNA binding; transcription factor binding; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; developmental growth; erythrocyte development; positive regulation of transcription by glucose; cell-matrix adhesion; response to toxin; heart development; positive regulation of axon extension; response to hormone stimulus; neuron migration; cardiac myofibril assembly; muscle maintenance; negative regulation of cell proliferation; tangential migration from the subventricular zone to the olfactory bulb; regulation of smooth muscle cell differentiation; morphogenesis of an epithelial sheet; positive regulation of smooth muscle contraction; heart looping; negative regulation of cell migration; neurite development; associative learning; positive thymic T cell selection; positive regulation of filopodium formation; regulation of cell adhesion; platelet activation; skin morphogenesis; hippocampus development; sarcomere organization; angiogenesis involved in wound healing; mRNA transcription from RNA polymerase II promoter; trophectodermal cell differentiation; regulation of water loss via skin; patterning of blood vessels; contractile actin filament bundle formation; mesoderm formation; long-term memory; cell migration during sprouting angiogenesis; response to cytokine stimulus; stress fiber formation; response to hypoxia; neuron development; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription factor activity; platelet formation; positive regulation of cell differentiation

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