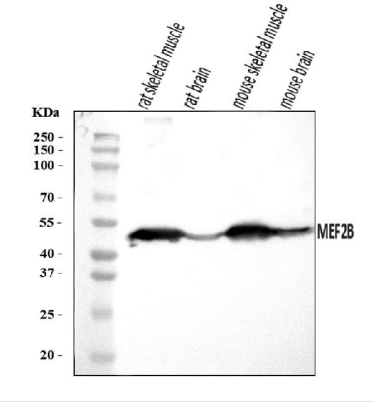
MEF2B Antibody – Rabbit Polyclonal

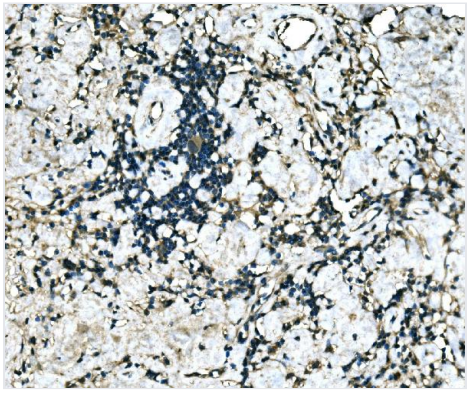
PRODUCT OVERVIEW

Product Name	MEF2B, Polyclonal Antibody
Full Product Name	Anti-MEF2B Antibody Picoband
Product Gene Name	anti-MEF2B antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (lot specific)
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.
Molecular Weight	38,639 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (19256376..19281098, complement). Location: 19p13.11
OMIM	600661
3D Structure	ModBase 3D Structure for Q02080
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human MEF2B recombinant protein (Position: R127-D352).
Product Categories/Family for anti-MEF2B antibody	Primary Antibodies, Rabbit Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-MEF2B antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-MEF2B antibody	WB: 0.25-0.5 ug/ml, Mouse, Rat IHC-P: 2-5 ug/ml, Human, Mouse, Rat Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG (#MBS176460) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (#MBS176453) for IHC(P).
Related Product Information for anti-MEF2B antibody	Myocyte enhancer binding factor 2B (MEF2B) is a transcription factor part of the MEF2 gene family including MEF2A, MEF2C, and MEF2D. The product of this gene is a member of the MADS/MEF2 family of DNA binding proteins. The protein is thought to regulate gene expression, including expression of the smooth muscle myosin heavy chain gene. This region undergoes considerable alternative splicing, with transcripts supporting two non-overlapping loci (GeneID 729991 and 100271849) as well as numerous read-through transcripts that span both loci (annotated as GeneID 4207). Several isoforms of this protein are expressed from either this locus or from some of the read-through transcripts annotated on GeneID 4207.

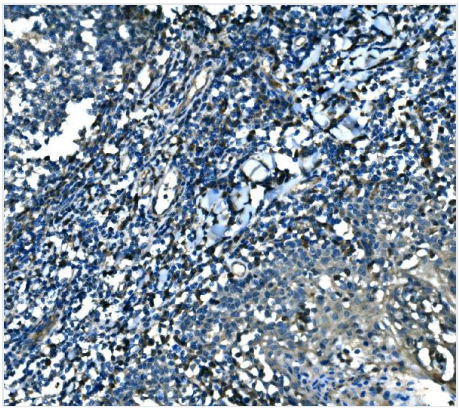
Other Notes	Small volumes of anti-MEF2B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MEF2B purchase	MBS1755489 is an antibody targeting MEF2B. Also known as Anti-MEF2B Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-MEF2B antibody
Figure 1. Western blot analysis of MEF2B using anti-MEF2B antibody (MBS1755489).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: rat skeletal muscle tissue lysates,Lane 2: rat brain tissue lysates,Lane 3: mouse skeletal muscle tissue lysates,Lane 4: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MEF2B antigen affinity purified polyclonal antibody (#MBS1755489) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for MEF2B at approximately 50 kDa. The expected band size for MEF2B is at 39 kDa.



Immunohistochemistry (IHC) of anti-MEF2B antibody
Figure 2. IHC analysis of MEF2B using anti-MEF2B antibody (MBS1755489).MEF2B was detected in a paraffin-embedded section of human hodgkin lymphoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MEF2B Antibody (MBS1755489) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



Immunohistochemistry (IHC) of anti-MEF2B antibody
Figure 3. IHC analysis of MEF2B using anti-MEF2B antibody (MBS1755489).MEF2B was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MEF2B Antibody (MBS1755489) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MEF2B. It may not necessarily be applicable to this product.

NCBI GI #	224809412

NCBI GeneID	100271849
NCBI Accession #	NP_001139257.1
UniProt Primary Accession #	Q02080
UniProt Secondary Accession #	A0AV80; B4DVH7; B7ZVY1; G5E9M1
UniProt Related Accession #	Q02080
GenBank Nucleotide #	NM_001145785.1
NCBI Official Full Name	myocyte-specific enhancer factor 2B isoform a
NCBI Official Synonym Full Names	myocyte enhancer factor 2B
NCBI Official Symbol	MEF2B
NCBI Official Synonym Symbols	RSRFR2
UniProt Protein Name	Myocyte-specific enhancer factor 2B
UniProt Synonym Protein Names	RSRFR2; Serum response factor-like protein 2
Protein Family	Myocyte-specific enhancer factor
UniProt Gene Name	MEF2B
UniProt Synonym Gene Names	XMEF2
UniProt Entry Name	MEF2B_HUMAN
NCBI Protein Information	myocyte-specific enhancer factor 2B; serum response factor-like protein 2; MADS box transcription enhancer factor 2, polypeptide B (myocyte enhancer factor 2B)
NCBI Summary for MEF2B	The product of this gene is a member of the MADS/MEF2 family of DNA binding proteins. The protein is thought to regulate gene expression, including expression of the smooth muscle myosin heavy chain gene. This region undergoes considerable alternative splicing, with transcripts supporting two non-overlapping loci (geneID:729991 and 100271849) as well as numerous read-through transcripts that span both loci (annotated as geneID:4207). Several isoforms of this protein are expressed from either this locus or from some of the read-through transcripts annotated on geneID:4207. [provided by RefSeq, Mar 2009]
UniProt Comments for MEF2B	MEF2B: Transcriptional activator which binds specifically to the MEF2 element, 5'-YTA[AT](4)TAR-3', found in numerous muscle- specific genes. Activates transcription via this element. May be involved in muscle-specific and/or growth factor-related transcription. Belongs to the MEF2 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 19p13.11 Cellular Component: nucleoplasm; transcription factor complex; cytoplasm; cell junction; nucleus Molecular Function: protein dimerization activity; histone deacetylase binding; transcription factor activity Biological Process: muscle development; transcription, DNA-dependent; positive regulation of transcription from RNA polymerase II promoter
Research Articles on MEF2B	**1.** MEF2B has a role in myogenic transformation of the epithelial to a myofibroblast phenotype
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Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/mef2b/1755489