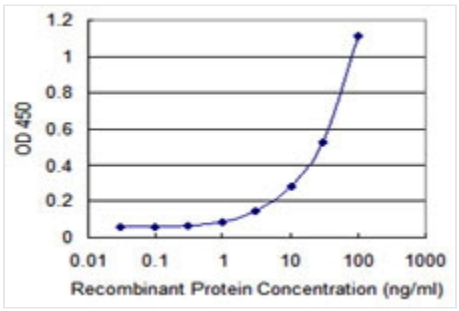
MAFA Antibody – Mouse Monoclonal

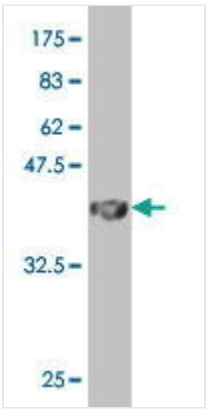
PRODUCT OVERVIEW

Product Name	MAFA, Monoclonal Antibody
Full Product Name	MAFA (Transcription Factor MafA, Pancreatic beta-cell-specific Transcriptional Activator, Transcription Factor RIPE3b1, V-maf Musculoaponeurotic Fibrosarcoma Oncogene Homolog A) APC
Product Gene Name	anti-MAFA antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2F1
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MAFA.
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: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	37kDa
OMIM	610303
3D Structure	ModBase 3D Structure for Q8NHW3
Immunogen	Partial recombinant protein corresponding to aa222-308 of human MAFA with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	LEERFSDDQLVSMSVRELNRQLRGFSKEEVIRLKQKRRTLKNRGYAQSCRFKRVQQRHILESEKCQLQSQVEQLKLEVGRLAKERDL
Conjugate	APC
Product Categories/Family for anti-MAFA antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-MAFA antibody	FLISA, Western Blot (WB)
Application Notes for anti-MAFA antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MAFA antibody	MafA is a 352aa containing transcription factor playing an important part in the regulation of the insulin gene transcription. It belongs to the bZIP family and Maf subfamily with a bZIP domain and binds DNA as a homodimer. Transcription factor MafA binds to RIPE3b, a conserved enhancer element that regulates pancreatic beta cell-specific expression of the insulin gene. MafA is known to cooperate synergistically with NEUROD1 and PDX1 and is known to be up-regulated by glucose. It is detected in nuclei of pancreas islet beta cells.
Other Notes	Small volumes of anti-MAFA 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 MAFA purchase	MBS6137478 is an antibody targeting MAFA. Also known as MAFA (Transcription Factor MafA, Pancreatic beta-cell-specific Transcriptional Activator, Transcription Factor RIPE3b1, V-maf Musculoaponeurotic Fibrosarcoma Oncogene Homolog A) APC. Reactive in Human. Host: Mouse.



Testing Data of anti-MAFA antibody
Detection limit is 1ng/ml using 129297 as a capture antibody.



Western Blot (WB) of anti-MAFA antibody
Western Blot detection against immunogen using 129297 (35.68kD).

ADDITIONAL DETAILS

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

NCBI GI #	71274111
NCBI GeneID	389692
NCBI Accession #	NP_963883
UniProt Primary Accession #	Q8NHW3
UniProt Related Accession #	Q8NHW3
GenBank Nucleotide #	NM_201589
NCBI Official Full Name	transcription factor MafA
NCBI Official Synonym Full Names	MAF bZIP transcription factor A
NCBI Official Symbol	MAFA
NCBI Official Synonym Symbols	INSDM; hMafA; RIPE3b1
UniProt Protein Name	Transcription factor MafA
UniProt Synonym Protein Names	Pancreatic beta-cell-specific transcriptional activator; Transcription factor RIPE3b1; V-maf musculoaponeurotic fibrosarcoma oncogene homolog A
Protein Family	Transcription factor
UniProt Gene Name	MAFA
UniProt Entry Name	MAFA_HUMAN
NCBI Protein Information	transcription factor MafA
NCBI Summary for MAFA	MAFA is a transcription factor that binds RIPE3b, a conserved enhancer element that regulates pancreatic beta cell-specific expression of the insulin gene (INS; MIM 176730) (Olbrot et al., 2002 [PubMed 12011435]).[supplied by OMIM, Mar 2008]

UniProt Comments for MAFA	MAFA: Acts as a transcriptional factor. Specifically binds the insulin enhancer element RIPE3b and activates insulin gene expression. Cooperates synergistically with NEUROD1 and PDX1. Phosphorylation by GSK3 increases its transcriptional activity and is required for its oncogenic activity. Involved either as an oncogene or as a tumor suppressor, depending on the cell context. Binds DNA as a homodimer (Probable). Interacts with NEUROD1, PCAF and PDX1. Up-regulated by glucose. Belongs to the bZIP family. Maf subfamily. Protein type: Transcription factor; DNA-binding; Tumor suppressor; Oncoprotein Chromosomal Location of Human Ortholog: 8q24.3 Cellular Component: nucleus Molecular Function: DNA binding; protein heterodimerization activity; protein homodimerization activity; transcription factor activity Biological Process: insulin secretion; nitric oxide mediated signal transduction; positive regulation of transcription from RNA polymerase II promoter; regulation of transcription from RNA polymerase II promoter; regulation of transcription, DNA-dependent; response to glucose stimulus; transcription from RNA polymerase II promoter
Research Articles on MAFA	**1.** We investigated a large pedigree with autosomal dominant inheritance of diabetes mellitus or insulinomatosis, an adult-onset condition of recurrent hyperinsulinemic hypoglycemia caused by multiple insulin-secreting neuroendocrine tumors of the pancreas. Using exome sequencing, we identified a missense MAFA mutation (p.Ser64Phe, c.191C>T) segregating with both phenotypes of insulinomatosis and diabetes.
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Online datasheet: https://www.mybiosource.com/monoclonal-human-antibody/mafa/6137478