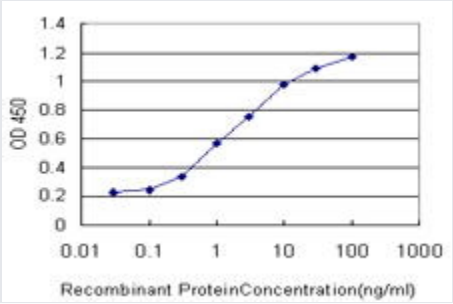
MTF1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	MTF1, Monoclonal Antibody
Full Product Name	MTF1 (Metal-Regulatory Transcription Factor 1, MGC23036, MTF-1, ZRF) (FITC)
Product Gene Name	anti-MTF1 antibody
Product Synonym Names	Metal-Regulatory Transcription Factor 1; MGC23036; MTF-1; ZRF
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3G12
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 MTF1.
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	81kDa
OMIM	600172
3D Structure	ModBase 3D Structure for Q14872
Immunogen	MTF1 (NP_005946, 41aa-140aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	GTVYDRTTVLIEQDPGTLEDEDDDGQCGEHLPFLVGGEEGFHLIDHEAMSQGYVQHIISPDQIHLTINPGSTPMPRNIEGATLTLQSECPETKRKEVKRY
Conjugate	FITC
Product Categories/Family for anti-MTF1 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-MTF1 antibody	Western Blot (WB)
Application Notes for anti-MTF1 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-MTF1 antibody	This gene encodes a transcription factor that induces expression of metallothioneins and other genes involved in metal homeostasis in response to heavy metals such as cadmium, zinc, copper, and silver. The protein is a nucleocytoplasmic shuttling protein that accumulates in the nucleus upon heavy metal exposure and binds to promoters containing a metal-responsive element (MRE). [provided by RefSeq]
Other Notes	Small volumes of anti-MTF1 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 MTF1 purchase	MBS6174893 is an antibody targeting MTF1. Also known as MTF1 (Metal-Regulatory Transcription Factor 1, MGC23036, MTF-1, ZRF) (FITC). Host: Mouse.



Testing Data of anti-MTF1 antibody
Detection limit for recombinant GST tagged MTF1 is approximately 0.03ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MTF1. It may not necessarily be applicable to this product.

NCBI GI #	112790163
NCBI GeneID	4520
NCBI Accession #	NP_005946
UniProt Primary Accession #	Q14872
UniProt Related Accession #	Q14872
GenBank Nucleotide #	NM_005955
NCBI Official Full Name	metal regulatory transcription factor 1
NCBI Official Synonym Full Names	metal regulatory transcription factor 1
NCBI Official Symbol	MTF1
NCBI Official Synonym Symbols	ZRF; MTF-1
UniProt Protein Name	Metal regulatory transcription factor 1
UniProt Synonym Protein Names	MRE-binding transcription factor; Transcription factor MTF-1
Protein Family	Metal regulatory transcription factor
UniProt Gene Name	MTF1
UniProt Entry Name	MTF1_HUMAN
NCBI Protein Information	metal regulatory transcription factor 1

UniProt Comments for MTF1	MTF1: Activates the metallothionein I promoter. Binds to the metal responsive element (MRE). Protein type: Transcription factor; C2H2-type zinc finger protein Chromosomal Location of Human Ortholog: 1p33 Cellular Component: nucleoplasm; nucleus Molecular Function: DNA binding; histone acetyltransferase binding; metal ion binding; protein binding; transcription coactivator activity; transcription factor activity Biological Process: positive regulation of transcription from RNA polymerase II promoter; regulation of transcription from RNA polymerase II promoter; response to cadmium ion; response to metal ion; response to oxidative stress; transcription from RNA polymerase II promoter
Research Articles on MTF1	**1.** MTF1 heads a hierarchy of zinc sensors, and through controlling the expression of a raft of metallothioneins and other key proteins involved in controlling intracellular zinc levels (e.g. ZnT1) alters zinc buffering capacity and total cellular zinc content.
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