

MTF1 Antibody (monoclonal) (M06)

Mouse monoclonal antibody raised against a partial recombinant MTF1.

Catalog # AT2926a

Product Information

Application	WB, E
Primary Accession	Q14872
Other Accession	NM_005955
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3G12
Calculated MW	80957

Additional Information

Gene ID	4520
Other Names	Metal regulatory transcription factor 1, MRE-binding transcription factor, Transcription factor MTF-1, MTF1
Target/Specificity	MTF1 (NP_005946, 41 a.a. ~ 140 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	MTF1 Antibody (monoclonal) (M06) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

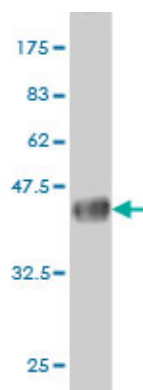
This gene encodes a transcription factor that induces expression of metallothioneins and other genes involved in metal homeostasis in response to heavy metals such as cadmium, zinc, copper, and silver. The protein is a nucleocytoplasmic shuttling protein that accumulates in the nucleus upon heavy metal exposure and binds to promoters containing a metal-responsive element (MRE).

References

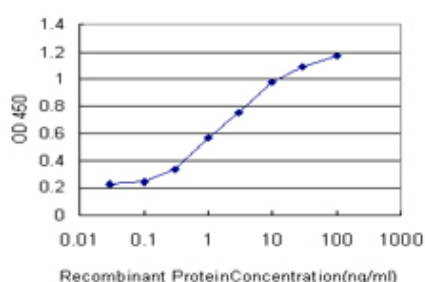
Divalent metal-dependent regulation of hepcidin expression by MTF-1. Balesaria S, et al. FEBS Lett, 2010 Feb 19. PMID 20026331. Loss of liver-intestine cadherin in human intrahepatic cholangiocarcinoma promotes

angiogenesis by up-regulating metal-responsive transcription factor-1 and placental growth factor. Takamura M, et al. *Int J Oncol*, 2010 Jan. PMID 19956853. Metal transcription factor-1 regulation via MREs in the transcribed regions of selenoprotein H and other metal-responsive genes. Stoytcheva ZR, et al. *Biochim Biophys Acta*, 2010 Mar. PMID 19913599. Metal-responsive transcription factor 1 (MTF-1) activity is regulated by a nonconventional nuclear localization signal and a metal-responsive transactivation domain. Lindert U, et al. *Mol Cell Biol*, 2009 Dec. PMID 19797083. Polymorphisms of DNA damage response genes in radiation-related and sporadic papillary thyroid carcinoma. Akulevich NM, et al. *Endocr Relat Cancer*, 2009 Jun. PMID 19286843.

Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 kDa) .



Detection limit for recombinant GST tagged MTF1 is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.