

**MTF1 Antibody (monoclonal) (M06)****Mouse monoclonal antibody raised against a partial recombinant MTF1.****Catalog # AT2926a****Specification**

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**MTF1 Antibody (monoclonal) (M06) - Product Information**

|                   |                           |
|-------------------|---------------------------|
| Application       | WB, E                     |
| Primary Accession | <a href="#">Q14872</a>    |
| Other Accession   | <a href="#">NM_005955</a> |
| Reactivity        | Human                     |
| Host              | mouse                     |
| Clonality         | Monoclonal                |
| Isotype           | IgG2a Kappa               |
| Calculated MW     | 80957                     |

**MTF1 Antibody (monoclonal) (M06) - 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.

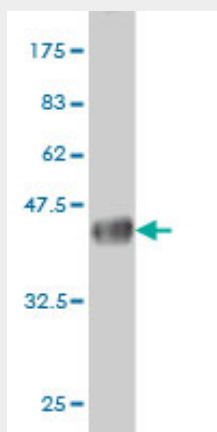
**MTF1 Antibody (monoclonal) (M06) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

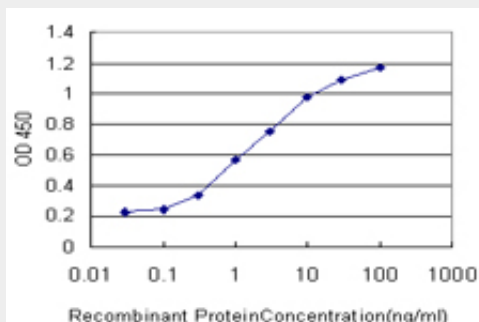
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### MTF1 Antibody (monoclonal) (M06) - 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.

#### MTF1 Antibody (monoclonal) (M06) - 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).

#### MTF1 Antibody (monoclonal) (M06) - 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.