

Mouse anti-Human MTF1 Monoclonal Antibody | anti-MTF1 antibody

MTF1

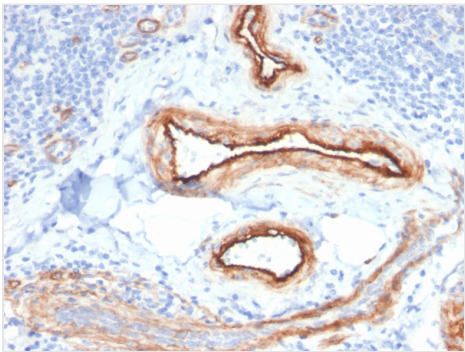
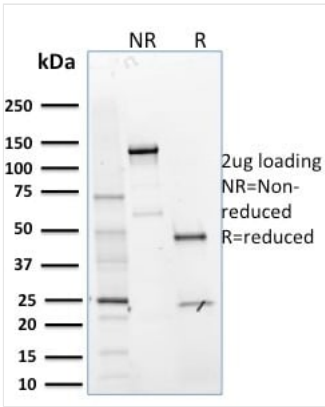
CATALOG # AAA215092	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

MTF1; Monoclonal Antibody; Metal regulatory transcription factor 1; Metal response element binding transcription factor 1; Metal responsive transcription factor 1; MRE-binding transcription factor 1; Transcription factor MTF1; Zinc regulatory factor (ZRF); anti-MTF1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	MTF1/2649
Specificity	The metal-responsive element (MRE)-binding transcription factor (MTF-1) stimulates the expression of metallothioneins in response to the exposure of cells to heavy metals. MTF-1 contains six zinc fingers in the DNA binding domain. The phosphorylation of MTF-1 in response to metal exposure appears to play a significant role in the ability of MTF-1 to activate metallothionein transcription. In addition to its role in metallothionein activation, MTF-1 is involved in a post-transcription regulatory complex for ribosomal protein S25. MTF-1, La and p53 inhibit the nuclear export of S25 mRNA in response to nutrient deprivation. Furthermore, MTF-1 acts as a chromatin insulator on integrated transgenes in cultured cells to insulate active loci against chromatin silencing.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	753
Applicable Applications for anti-MTF1 antibody	IHC (Immunohistochemistry)
Positive Control	Human kidney.
Immunogen	Recombinant full-length human MTF1 protein
Cellular Localization	Nucleus.
Hu-chromosome Location	1p34.3
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with MTF1 Mouse Monoclonal Antibody (MTF1/2649).

SDS-PAGE
SDS-PAGE Analysis Purified MTF1 Mouse Monoclonal Antibody (MTF1/2649). Confirmation of Purity and Integrity of Antibody.

ADDITIONAL INFORMATION

References	Adilakshmi, T. and Laine, R.O. 2002. J. Biol. Chem. 277: 4147-4151.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	112790163
NCBI GeneID	4520
NCBI Accession #	NP_005946.2
NCBI GenBank Nucleotide #	NP_005946.2
UniProt Accession #	Q14872
Molecular Weight	70kDa
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
NCBI Protein Information	metal regulatory transcription factor 1
UniProt Protein Name	Metal regulatory transcription factor 1
UniProt Gene Name	MTF1
UniProt Entry Name	MTF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.