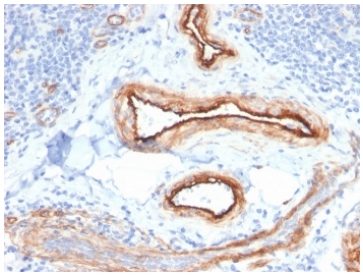
MTF1 Antibody / Metal regulatory transcription factor 1 [clone MTF1/2649] (V7966)

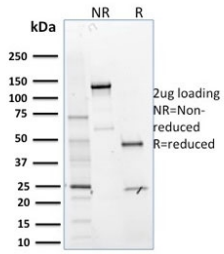
Catalog No.	Formulation	Size
V7966-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7966-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7966SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	MTF1/2649
Purity	Protein G affinity chromatography
UniProt	Q14872
Localization	Nuclear, cytoplasmic
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This MTF1 antibody is available for research use only.



IHC staining of FFPE human renal cell carcinoma with MTF1 antibody. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free MTF1 antibody as confirmation of integrity and purity.

Description

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 depravation. Furthermore, MTF-1 acts as a chromatin insulator on integrated transgenes in cultured cells to insulate active loci against chromatin silencing.

Application Notes

Optimal dilution of the MTF1 antibody should be determined by the researcher.

Immunogen

A recombinant full-length human protein was used as the immunogen for the MTF1 antibody.

Storage

Store the MTF1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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