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36-2807: Anti-MTF1 Monoclonal Antibody(Clone: MTF1/2649)

Clonality: Monoclonal Clone Name: MTF1/2649

Application: IHC
Reactivity: Human
Gene: MTF1
Gene ID: 4520
Uniprot ID: Q14872

Metal regulatory transcription factor 1; Metal response element binding transcription factor 1;

Alternative Name: Metal responsive transcription factor 1; MRE-binding transcription factor 1; MTF1;

Transcription factor MTF1; Zinc regulatory factor (ZRF)

Isotype: Mouse IgG1, kappa

Immunogen Information: Recombinant full-length human MTF1 protein

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.

Product Info

Amount: 20 μg / 100 μg

Content: 200 µg/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.

Storage condition : Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody

is stable for 24 months. Non-hazardous.

Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

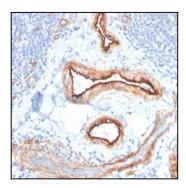


Fig. 1: Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with MTF1 Mouse Monoclonal Antibody (MTF1/2649).



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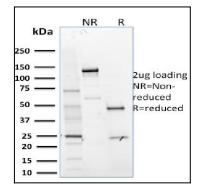


Fig. 2: SDS-PAGE Analysis Purified MTF1 Mouse Monoclonal Antibody (MTF1/2649). Confirmation of Purity and Integrity of Antibody.