

Anti-MTF-1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit)
Molecular Weight:	Theoretical: 81 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-MTF-1 Polyclonal Antibody, Unconjugated (TMAB-09062) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining
Application:	IHC-P,IHC-Fr,IF
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human MTF-1
Antigen Species:	Human
Gene ID:	4520
Uniprot ID:	Q14872

Research Background

The zinc finger transcription factor MTF-1 (metal-responsive transcription factor-1) is conserved from insects to vertebrates. The major role of MTF-1 in both organisms is to control the transcription of genes involved in the homeostasis and detoxification of heavy metal ions such as Cu²⁺, Zn²⁺ and Cd²⁺. In mammals, MTF-1 serves at least two additional roles. First, targeted disruption of the MTF-1 gene results in death at embryonic day 14 due to liver degeneration, revealing a stage-specific developmental role. Second, under hypoxic-anoxic stress, MTF-1 helps to activate the transcription of the gene placental growth factor (PlGF), an angiogenic protein.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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