

Product Datasheet

MTF1 Antibody - BSA Free

NBP1-86380

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

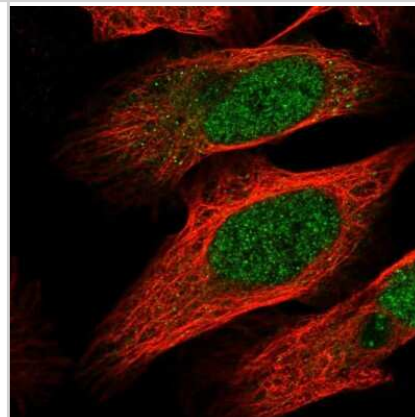
Product Description	
Host	Rabbit
Gene ID	4520
Gene Symbol	MTF1
Species	Human, Mouse, Bovine
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Rat (85%). Mouse reactivity reported in scientific literature (PMID: 24529376). Bovine reactivity reported in scientific literature (PMID: 31068538).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: EHSPDNIIYFEAEDELTPDDKMLRFVDKNGLVPSSSGTVYDRTTVLIEQDPG TLEDEDDDGQCG

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin Reported in scientific literature (PMID: 24529376)., Immunohistochemistry-Frozen Reported in scientific literature (PMID 24529376).
Application Notes	ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

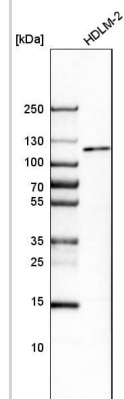


Images

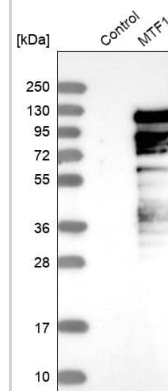
Immunocytochemistry/Immunofluorescence: MTF1 Antibody [NBP1-86380] - Staining of human cell line U-2 OS shows localization to nucleoplasm. Antibody staining is shown in green.



Analysis in human cell line HDLM-2.



Analysis in control (vector only transfected HEK293T lysate) and MTF1 over-expression lysate (Co-expressed with a C-terminal myc-DDK tag (~3.1 kDa) in mammalian HEK293T cells).



Publications

Buchtova T, Skrott Z, Chroma K et al. Cannabidiol-induced activation of the metallothionein pathway impedes anticancer effects of disulfiram and its metabolite CuET Molecular Oncology 2022-04-01 [PMID: 34632694] (Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Human, Mouse)

Hacisuleyman E, Hale CR, Noble N et Al. Neuronal activity rapidly reprograms dendritic translation via eIF4G2:uORF binding Nat Neurosci 2024-04-08 [PMID: 38589584]

Zeynep Busra Aksoy-Ozer, Ceylan Verda Bitirim, Belma Turan, Kamil Can Akcali The Role of Zinc on Liver Fibrosis by Modulating ZIP14 Expression Throughout Epigenetic Regulatory Mechanisms. Biological trace element research 2024-01-15 [PMID: 38221603]

Buchtova T, Beresova L, Chroma K et al. Cannabis-derived products antagonize platinum drugs by altered cellular transport Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie 2023-05-01 [PMID: 37137184] (Western Blot, Human)

Han H, Nakaoka HJ, Hofmann L et al. The Hippo pathway kinases LATS1 and LATS2 attenuate cellular responses to heavy metals through phosphorylating MTF1 Nature cell biology 2022-01-01 [PMID: 35027733]

Xuan J, Zhu D, Cheng Z et al. Crocin inhibits the activation of mouse hepatic stellate cells via the Inc-LFAR1/MTF-1/GDNF pathway Cell cycle (Georgetown, Tex.) 2020-12-09 [PMID: 33295246]

Zhang R, Zhao G, Shi H et al. Zinc regulates primary ovarian tumor growth and metastasis through the epithelial to mesenchymal transition Free radical biology & medicine 2020-09-11 [PMID: 32927017] (WB, Human)

Schwarz M, Lossow K, Kopp JF et al. Crosstalk of Nrf2 with the Trace Elements Selenium, Iron, Zinc, and Copper Nutrients 2019-09-05 [PMID: 31491970] (WB, Mouse)

Han YE, Kwon J, Won J et al. Possible mechanisms underlying transcriptional induction of metallothionein isoforms by tris(pentafluorophenyl)stibane, tris(pentafluorophenyl)arsane, and tris(pentafluorophenyl)phosphane in cultured bovine aortic endothelial cells J Toxicol Sci 2019-05-10 [PMID: 31068538] (Chemotaxis, Bovine)

Zhang, D;Zhang, T;Liu, J;Chen, J;Li, Y;Ning, G;Huo, N;Tian, W;Ma, H; Zn Supplement-Antagonized Cadmium-Induced Cytotoxicity in Macrophages In Vitro: Involvement of Cadmium Bioaccumulation and Metallothioneins Regulation J. Agric. Food Chem. 2019-04-24 [PMID: 30942077] (WB, ICC/IF, Mouse)

Liang Ji GZ, Zhang P, Huo W et al. Knockout of MTF1 Inhibits the Epithelial to Mesenchymal Transition in Ovarian Cancer Cells. Journal of Immunology Research. 2018-11-19 [PMID: 30588241] (WB, Human)

Lee M, Won Y, Shin Y et al. Reciprocal activation of hypoxia-inducible factor (HIF)-2alpha and the zinc-ZIP8-MTF1 axis amplifies catabolic signaling in osteoarthritis. Osteoarthr. Cartil. 2015-08-01 [PMID: 26241779] (Chemotaxis, Mouse)

More publications at <http://www.novusbio.com/NBP1-86380>



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NBP1-86380PEP	MTF1 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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