bs-1328R **[Primary Antibody]**

MT2A Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 17749 **SWISS:** Q63871

Target: MT2A

Immunogen: KLH conjugated synthetic peptide derived from mouse MT2A: 11-61/61.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Metallothioneins (MTs) are a family of low molecular weight, heavy metal-binding proteins characterized by a high cysteine content and lack of aromatic amino acids. MTs bind 7 to 12 heavy metal atoms per molecule of protein. They are ubiquitous in the animal and plant kingdoms and are also found in prokaryotes. In mammals, the cysteine residues are absolutely conserved and serve to coordinate heavy metal atoms such as zinc, cadmium, and copper via mercaptide linkages.

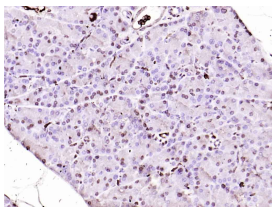
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)

Reactivity: Human, Mouse (predicted: Rat)

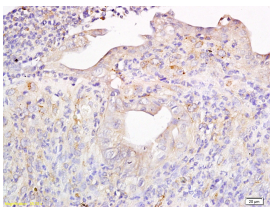
Predicted MW.: 6 kDa

Subcellular Location: Cytoplasm ,Nucleus

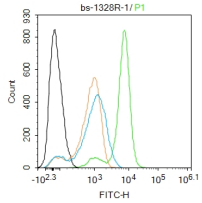
VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (mouse pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Metallothionein) Polyclonal Antibody, Unconjugated (bs-1328R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: mouse colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Metallothionein Polyclonal Antibody, Unconjugated(bs-1328R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control:U937. Primary Antibody (green line): Rabbit Anti-Metallothionein antibody (bs-1328R) Dilution: 1ug/Test; Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=7.7]** Zhen Tang. et al.Integrated analysis of multiple programmed cell death-related prognostic genes and functional validation of apoptosis-related genes in osteosarcoma..International Journal of Biological Macromolecules.2025 Mar 13;307(Pt 3):142113. Western blot,Co-ip ;Human. 40089239
- **[IF=7.33]** Na et al. Novel roles of DC-SIGNR in colon cancer cell adhesion, migration, invasion, and liver metastasis.

(2017) J.Hematol.Oncol. 10:28 WB ;Mouse. 28109307

- **[IF=4.3]** Wang Chenggang. et al. Compensatory upregulation of MT2A alleviates neurogenic intermittent claudication through inhibiting activated p38 MAPK-mediated neuronal apoptosis. HUM CELL. 2024 Mar;:1-14 IF ;Rat. 38546949
- **[IF=3.2]** Jingjing Wang. et al. Melatonin ameliorates RF-EMR-induced reproductive damage by inhibiting ferroptosis through Nrf2 pathway activation. PATHOL RES PRACT. 2025 Jun;270:156003 IF ;Mouse. 40344840
- **[IF=2.2]** Dianshan Ke. et al. RANKL promotes MT2 degradation and ROS production in osteoclast precursors through Beclin1-dependent autophagy. DIFFERENTIATION. 2025 May;143:100863 WB ;Mouse. 40267773