bsm-51320M **[Primary Antibody]**

TIMP-2 Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG1
Clonality: Monoclonal
CloneNo.: 4C9
GeneID: 7077
SWISS: P16035
Target: TIMP-2
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: This gene is a member of the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases, a group of peptidases involved in degradation of the extracellular matrix. In addition to an inhibitory role against metalloproteinases, the encoded protein has a unique role among TIMP family members in its ability to directly suppress the proliferation of endothelial cells. As a result, the encoded protein may be critical to the maintenance of tissue homeostasis by suppressing the proliferation of quiescent tissues in response to angiogenic factors, and by inhibiting protease activity in tissues undergoing remodelling of the extracellular matrix. [provided by RefSeq, Jul 2008].

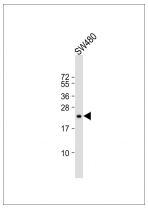
Applications: **WB** (1:500-2000)
IHC-P (1:20-100)
IHC-F (1:20-100)
IF (1:100-500)
Flow-Cyt (1:20-50)

Reactivity: Human

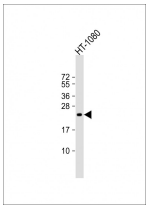
Predicted MW.: 24 kDa

Subcellular Location: Secreted

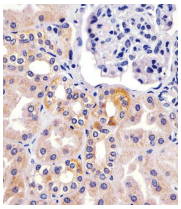
VALIDATION IMAGES



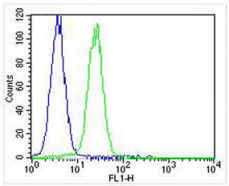
Sample: Lane 1: Human SW480 cell lysates Primary: Anti- TIMP-2 (bsm-51320M) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 24 kD Observed band size: 24 kD



Sample: Lane 1: Human HT-1080 cell lysates Primary: Anti- TIMP-2 (bsm-51320M) at 1/2000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 24 kD Observed band size: 24 kD



Paraformaldehyde-fixed, paraffin embedded (human kidney sections); 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 (TIMP-2) Monoclonal Antibody, Unconjugated (bsm-51320M) at 1:25 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.



Blank control:K562. Primary Antibody (green line): Mouse Anti-TIMP-2 antibody (bsm-51320M) Dilution:1:25; Secondary Antibody : Goat anti-mouse IgG-AF488 Dilution:1:400. Protocol The cells were fixed with 2% PFA (10min at room

temperature)and then permeabilized with 90% methanol for 10 min.The cells were then incubated in 2%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=3.5]** Yang Shude. et al. RNF144A-AS1 stabilizes TAF15 and promotes malignant biological behaviors of skin cutaneous melanoma. MOL CELL BIOCHEM. 2024 Jun;:1-13 WB ;Human. 38878223