



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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**Tissue Inhibitor of Matrix Metalloproteinase 1 (TIMP-1). Mouse Monoclonal Antibody**  
TIMP-1; CLG1; EPA; HCI

**BACKGROUND**

TIMP-1, TIMP-2, TIMP-3 and TIMP-4 (for tissue inhibitor of metalloproteinases-1, -2, -3 and -4) complex with metalloproteinases such as collagenases, gelatinases and stromelysins, resulting in irreversible inactivation of the metalloproteinase. TIMP-1 was found to be identical to EPA (erythroidpotentiation activity). Parathyroid hormone has been shown to be a regulator of TIMP-2 in osteoblastic cells. TIMP-3 may be involved in regulating trophoblastic invasion of the uterus as well as in regulating remodeling of the extracellular matrix during the folding of epithelia, and in the formation, branching and expansion of epithelial tubes. TIMP-4 is most highly expressed in heart and low levels of TIMP-4 are expressed in liver, brain, lung, thymus and spleen.

**ORDERING INFORMATION**

**CATALOG NUMBER**  
X2058M

**SIZE**  
200 µg

**FORM**  
Unconjugated

**HOST/CLONE**  
Mouse Clone 2A5

**FORMULATION**  
Provided as solution in phosphate buffered saline with 0.08% sodium azide

**CONCENTRATION**  
See vial for concentration

**ISOTYPE**  
IgG1

**APPLICATIONS**  
ELISA, Immunohistochemistry, Western Blot

**SPECIES REACTIVITY**  
Human, Macaque

**ACCESSION NUMBER**  
Human P01033  
Macaque Q95KL9

**IMMUNOGEN**

Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with a synthetic peptide derived from the human TIMP-1 protein and mouse myeloma Ag8563 cells. Sequence common in monkey

Left: Immunohistochemical staining of human colon carcinoma tissue using TIMP-1 antibody (Cat. No. X2058M).

Right: Western blot using TIMP-1 antibody against recombinant human TIMP-1 proenzyme (400 ng/lane).



**POSITIVE CONTROL/TISSUE EXPRESSION**

Colon and gastric tissues. Stronger expression observed in tumor versus normal protein.

**COMMENTS**

Antibody can be used for Western blotting (1-2  $\mu\text{g/ml}$ ) and immunohistochemistry on formalin-fixed, paraffin-embedded tissues (1-5  $\mu\text{g/ml}$ ). Optimal concentration should be evaluated by serial dilutions.

**PURIFICATION**

Protein A/G Chromatography

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STORAGE CUSTOMER**

Product should be stored at  $-20^{\circ}\text{C}$ . Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**

1. Hoikkala, S., et al. (2006). Tissue MMP-2 and MMP-9 [corrected] are better prognostic factors than serum MMP-2/TIMP-2-complex or TIMP-1 [corrected] in stage [corrected] I-III lung carcinoma. *Cancer Lett.* 236(1):125-132
2. Bodden, M.K., et al. (1994). Functional domains of human TIMP-1 (tissue inhibitor of metalloproteinases). *J. Biol. Chem.* 269(29):18943-18952

**PRODUCT SPECIFIC REFERENCES**