

Rabbit Monoclonal Antibody to Human TIMP Metallopeptidase Inhibitor 1

Cat. No. CAB11617RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human TIMP Metallopeptidase Inhibitor 1
Species	Human
Source	Rabbit
Antigen Description	Tissue inhibitors of metalloproteinases (TIMP) family are natural inhibitors of the matrix metalloproteinases (MMPs), the zinc enzymes involved in extracellular matrix maintenance and remodeling. The TIMP family encompasses four members (TIMP1-4), and the inducible form TIMP1 is a glycoprotein expressed by a variety of cell types. It inhibits most MMPs except membrane-type MMP subfamily by forming non-covalent binary complex, but also interacts with the hemopexin-like (PEX) domain of pro MMP-9. TIMP1 has been identified as a multifunctional molecule with divergent functions. It exhibits keratinocyte and fibroblast growth factor-like activity and acts as a cell survival factor, and additionally participates in tumor metastasis, angiogenesis, inflammatory responses, as well as CNS homeostasis. TIMP1 overexpression may serve to help identify patients with particularly aggressive disease for adjuvant treatments.
Specificity	Human TIMP1. No cross-reactivity with human TIMP2 and human cell lysate (293 cell line) in WB and ELISA
Immunogen	Recombinant human TIMP1 protein

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Isotype	Rabbit IgG
Clone	A005
Applications	Western blot; ELISA
Dilution	Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human TIMP1 in WB. Using a DAB detection system, the detection limit for human TIMP1 is approximately 1 ng/lane under non-reducing conditions and 10 ng/lane under reducing conditions Direct ELISA: This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human TIMP1. The detection limit for human TIMP1 is approximately 0.00975 ng/well
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant human TIMP1
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	TIMP1 TIMP metalloproteinase inhibitor 1 [Homo sapiens]
Official Symbol	TIMP1
Synonyms	TIMP1; TIMP metalloproteinase inhibitor 1; CLGI, TIMP, tissue inhibitor of

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	metalloproteinase 1 (erythroid potentiating activity, collagenase inhibitor); metalloproteinase inhibitor 1; EPO; TIMP-1; collagenase inhibitor; erythroid potentiating activity; erythroid-potentiating activity; fibroblast collagenase inhibitor; tissue inhibitor of metalloproteinases 1; EPA; HCI; CLGI; TIMP; FLJ90373;
Gene ID	7076
mRNA Refseq	NM_003254
Protein Refseq	NP_003245
MIM	305370
UniProt ID	P01033
Chromosome Location	Xp11.3-p11.23
Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Hemostasis, organism-specific biosystem; IL6-mediated signaling events, organism-specific biosystem; Matrix Metalloproteinases, organism-specific biosystem; Platelet activation, signaling and aggregation, organism-specific biosystem;
Function	enzyme inhibitor activity; metal ion binding; metalloendopeptidase inhibitor activity; metalloendopeptidase inhibitor activity; protein binding;