Mouse Monoclonal Antibody to Human TIMP Metallopeptidase Inhibitor 1

Cat. No. CAB11616MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Monoclonal Antibody to Human TIMP Metallopeptidase Inhibitor 1
Species	Human
Source	Mouse
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 cell lysate (293 cell line) in WB and ELISA.
Immunogen	Human cell-derived TIMP1 protein

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Isotype	Mouse IgG1
Clone	8D9B7
Applications	ELISA
Dilution	This antibody can be used at 0.5-1μg/mL with the appropriate secondary reagents to detect TIMP1. The detection limit for TIMP1 is approximately 0.625ng/well.
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant human TIMP1. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
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 metallopeptidase inhibitor 1 [Homo sapiens]
Official Symbol	TIMP1
Synonyms	TIMP1; TIMP metallopeptidase inhibitor 1; CLGI, TIMP,tissue inhibitor of metalloproteinase 1 (erythroid potentiating activity, collagenase inhibitor); metalloproteinase inhibitor 1; EPO; TIMP-1; collagenase inhibitor; erythroid

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	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;

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