

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects recombinant rat TIMP-1 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 145701
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat TIMP-1 Cys24-Ala217 Accession # P30120
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Rat TIMP-1 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 µg/mL	Rat TIMP-1 Antibody (Catalog # MAB5802)
ELISA Detection	0.1-0.4 µg/mL	Rat TIMP-1 Biotinylated Antibody (Catalog # BAF580)
Standard		Recombinant Rat TIMP-1 (Catalog # 580-RT)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Tissue Inhibitor of Metalloproteinases-1, (TIMP-1) belongs to a family of proteins that regulate the activation and proteolytic activity of the matrix metalloproteinases (MMPs). TIMP-1 is a glycoprotein produced by a wide range of cell types. It inhibits active MMP-mediated proteolysis by forming an N-terminal, non-covalent binary complex with the MMP active site. TIMP-1 also associates C-terminally with Pro-MMP-9 in a complex that may play a role in regulating activation. Independent of MMPs, TIMP-1 has been shown to play a role in tissue homeostasis.