

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
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

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.

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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