



Anti-TIMP1 polyclonal antibody [Biotin] (DPABY-509)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	TIMPs-1 through -4 regulate the activity of zinc metalloproteases known as MMPs, ADAMs and ADAMTSs. Structurally, TIMPs contain two domains. The N-terminal domain binds to the active site of mature metalloproteases via a 1:1 non-covalent interaction, blocking access of substrates to the catalytic site. In addition, The C-terminal domain of TIMP-1 and TIMP-2 binds to the hemopexin- like domain of pro-MMP-9 and pro-MMP-2, respectively. The latter binding is essential for the cell surface activation of MMP-2 by MMP-14.
Specificity	Detects mouse TIMP-1 in ELISAs and Western blots. In sandwich immunoassays, less than 0.1% cross-reactivity with recombinant human (rh) TIMP-1, rhTIMP-2, rhTIMP-3, rhTIMP-4, and recombinant rat TIMP-1 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse TIMP-1. Cys25-Arg205 Accession Number P12032
Isotype	IgG
Source/Host	Goat
Species Reactivity	Mouse
Purification	Antigen Affinity-purified
Conjugate	Biotin
Applications	Western Blot, ELISA Detection (Matched Pair)
Format	Liquid
Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.

Preservative	None
Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <p>12 months from date of receipt, -20 to -70 °C as supplied.</p> <p>1 month, 2 to 8 °C under sterile conditions after reconstitution.</p> <p>6 months, -20 to -70 °C under sterile conditions after reconstitution.</p>

GENE INFORMATION

Gene Name	Timp1 tissue inhibitor of metalloproteinase 1 [Mus musculus (house mouse)]
Official Symbol	TIMP1
Synonyms	TIMP1; tissue inhibitor of metalloproteinase 1; EPA; Clgi; Timp; TIMP-1; TPA-S1; metalloproteinase inhibitor 1; TPA-induced protein; erythroid-potentiating activity; collagenase inhibitor 16C8 fibroblast; tissue inhibitor of metalloproteinase-1; tissue in
Entrez Gene ID	21857
Protein Refseq	NP_001037849
UniProt ID	P12032
Chromosome Location	X A1.3; X 16.38 cM
Pathway	Activation of Matrix Metalloproteinases; Degradation of the extracellular matrix; Extracellular matrix organization; HIF-1 signaling pathway; Hemostasis; Matrix Metalloproteinases; Platelet activation, signaling and aggregation; Platelet degranulation;
Function	cytokine activity; enzyme inhibitor activity; growth factor activity; metal ion binding; metalloendopeptidase inhibitor activity; peptidase inhibitor activity; protease binding;