



Anti-TIMP1 polyclonal antibody [Biotin] (DPABY-437)

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 rat TIMP-1 in ELISAs and Western blots. In sandwich immunoassays, less than 0.5% cross-reactivity with recombinant human (rh)TIMP-1, recombinant mouse (rm)TIMP-1, rhTIMP-2, rhTIMP-3, and rhTIMP-4 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat TIMP-1. Cys24-Ala217 Accession Number P30120
Isotype	IgG
Source/Host	Goat
Species Reactivity	Rat
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.

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Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
	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.

GENE INFORMATION

Gene Name	Timp1 TIMP metallopeptidase inhibitor 1 [Rattus norvegicus (Norway rat)]
Official Symbol	TIMP1
Synonyms	TIMP1; TIMP metallopeptidase inhibitor 1; Timp; TIMP-1; metalloproteinase inhibitor 1; tissue inhibitor of metalloproteinase 1; tissue inhibitor of metalloproteinases 1;
Entrez Gene ID	<u>116510</u>
Protein Refseq	NP 446271
UniProt ID	<u>P30120</u>
Chromosome Location	Xq12
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; growth factor activity; metal ion binding; metalloendopeptidase inhibitor activity; protease binding;