



Anti-TIMP4 polyclonal antibody [Biotin] (DPABY-585)

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 human TIMP-4 in ELISAs and Western blots. In sandwich immunoassays, less than 0.1% cross-reactivity with recombinant human (rh) TIMP-1, rhTIMP-2, rhTIMP-3, and recombinant mouse TIMP-1 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human TIMP-4. Cys30-Pro224 Accession Number Q99727
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
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	TIMP4 TIMP metallopeptidase inhibitor 4 [Homo sapiens (human)]
Official Symbol	TIMP4
Synonyms	TIMP4; TIMP metallopeptidase inhibitor 4; metalloproteinase inhibitor 4; TIMP-4; tissue inhibitor of metalloproteinase 4; tissue inhibitor of metalloproteinases 4;
Entrez Gene ID	7079
Protein Refseq	NP_003247
UniProt ID	Q99727
Chromosome Location	3p25
Pathway	Matrix Metalloproteinases;
Function	metal ion binding; metalloendopeptidase inhibitor activity;