



Anti-TIMP3 monoclonal antibody, clone 388239 [Biotin] (DCABY-4313)

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-3 in ELISAs.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human TIMP-3. Cys24-Pro211 Accession Number P35625
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	388239
Purification	Protein A or G purified from hybridoma culture supernatant
Conjugate	Biotin
Applications	ELISA Detection (Matched Pair)
Format	Liquid
Size	250 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	TIMP3 TIMP metalloproteinase inhibitor 3 [Homo sapiens (human)]
Official Symbol	TIMP3
Synonyms	TIMP3; TIMP metalloproteinase inhibitor 3; SFD; K222; K222TA2; HSMRK222; metalloproteinase inhibitor 3; TIMP-3; MIG-5 protein; protein MIG-5; tissue inhibitor of metalloproteinases 3;
Entrez Gene ID	7078
Protein Refseq	NP_000353
UniProt ID	P35625
Chromosome Location	22q12.3
Pathway	Angiogenesis; Endochondral Ossification; Matrix Metalloproteinases; MicroRNAs in cancer; Oncostatin M Signaling Pathway; Proteoglycans in cancer;
Function	metal ion binding; metalloendopeptidase inhibitor activity; protein binding;