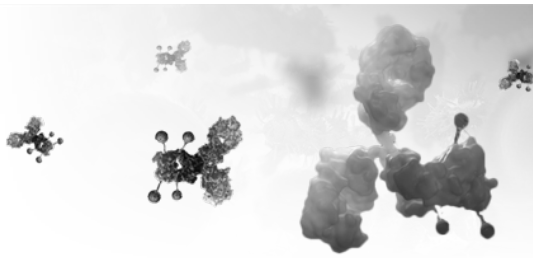

Anti-TIMP4 monoclonal antibody, clone 264045 (DCABY-4080)

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 ELISAs, this antibody does not cross-react with recombinant human (rh)TIMP-1, -2, -3, or rmTIMP-1.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human TIMP-4. Cys30-Pro244 Accession Number Q99727
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	264045
Purification	Protein A or G purified from hybridoma culture supernatant
Conjugate	Unconjugated
Applications	Western Blot, Immunohistochemistry, ELISA Capture (Matched Pair)
Format	Liquid
Size	500 µg

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Buffer	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.
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 from date of receipt, 2 to 8 °C, reconstituted. 6 months from date of receipt, -20 to -70 °C, reconstituted.

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;

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221