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#5673

TIMP3 (D74B10) Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 20, 25	Source/Isotype: Rabbit IgG	UniProt ID: #P35625	Entrez-Gene Id: 7078
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	TIMP3 (D74B10) Rabbit mAb detects endogenous levels of total TIMP3 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding residues surrounding Lys53 of human TIMP3.	
Background	TIMPs are members of the family of tissue inhibitors of matrix metalloproteinases (MMPs) that includes TIMP1, TIMP2, TIMP3, and TIMP4. The main function of TIMPs is their inhibitory effect on MMPs. TIMPs irreversibly inactivate MMPs by directly binding to their catalytic zinc cofactor and resultant inhibition of proteinase function (1,2). In addition to MMP inhibition, TIMPs have also been shown to interact with various membrane receptors on the cell surface. Some of these interactions include TIMP1 with CD63, TIMP2 with α3β1 integrin, and TIMP3 with VEGFR2, all of which result in distinct cellular effects (3). TIMPs are involved in a wide variety of biological functions, such as tumor angiogenesis and progression (4,5), wound healing, and vascular remodeling (6,7). Mutations in TIMP3 are associated with Sorsby's fundus dystrophy (8,9).	
Background References	<ol style="list-style-type: none"> Nagase, H. et al. (2006) <i>Cardiovasc Res</i> 69, 562-73. Visse, R. and Nagase, H. (2003) <i>Circ Res</i> 92, 827-39. Stetler-Stevenson, W.G. (2008) <i>Sci Signal</i> 1, re6. Noel, A. et al. (2004) <i>J Clin Pathol</i> 57, 577-84. Hojilla, C.V. et al. (2003) <i>Br J Cancer</i> 89, 1817-21. Gill, S.E. and Parks, W.C. (2008) <i>Int J Biochem Cell Biol</i> 40, 1334-47. Raffetto, J.D. and Khalil, R.A. (2008) <i>Biochem Pharmacol</i> 75, 346-59. Weber, B.H. et al. (1994) <i>Nat Genet</i> 8, 352-6. Yeow, K.M. et al. (2002) <i>Matrix Biol</i> 21, 75-88. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting
Cross-Reactivity Key	H: Human M: Mouse R: Rat
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