TIMP1 (D10E6) Rabbit mAb





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Applications: W, IHC-P	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 26	Source/Isotype: Rabbit IgG	UniProt ID: #P01033	Entrez-Gene Id: 7076	
Product Usage Information		Application Western Blotting Immunohistochemistry (Paraffin)			Dilution 1:1000 1:1000 - 1:4000		
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.					
		For a carrier free (BSA and azide free) version of this product see product #76074.					
Specificity/Sen	sitivity	TIMP1 (D10E6) Rabbit mAb recognizes endogenous levels of total TIMP1 protein.					
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala134 of human TIMP1 protein.					
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 α 3 β 1 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 Re	eferences	 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 Reactiv	/ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot B	uffer	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 Ke	ey	W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)					
Cross-Reactivit	у Кеу	H: Human Mk: Monkey					
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