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TIMP2 (D18B7) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:		
W, W-S	H M MK	Endogenous	22	Rabbit IgG	#P16035	/0//		
Product Usage Information		Application Western Blotting Simple Western™		Dilution 1:1000 1:10 - 1:50				
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/Sen	pecificity/Sensitivity TIMP2 (D18B7) Rabbit mAb detects endogenous levels of total TIMP2 protein.							
Source / Purific	ification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding residues surrounding Thr135 of human TIMP2 protein.				rresponding			
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 VEGR2, 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	ferences	 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 de	termined by testing	g in at least one approve	ed application (e.g., ۱؛	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	≥y	W: Western Blotting W-S: Simple Western™						
Cross-Reactivit	у Кеу	H: Human M: Mouse Mk: Monkey						
Trademarks an	d Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
		All other trademarks a more information.	re the property of t	ne property of their respective owners. Visit cellsignal.com/trademarks for				
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