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## TIMP1 (D10E6) Rabbit mAb



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or Research Use On Applications: WB, IHC-P	Reactivity: H Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 26	Source/Isotype: Rabbit IgG	UniProt ID: #P01033	Entrez-Gene Id 7076	
Product Usage	Ар	plication		Dilution			
Information	We	Western Blotting			1:1000		
	Imr	munohistochemistry	(Paraffin)	1:1000 - 1:4000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #76074.					
Specificity / Sensitivity		TIMP1 (D10E6) Rabbit mAb recognizes endogenous levels of total TIMP1 protein.					
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala134 of human TIMP1 protein.					
Background	TIM irrev prot varie TIM are wou	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 $\alpha 3\beta 1$ 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 Ref	2. Vi 3. Si 4. N 5. H	<ol> <li>Nagase, H. et al. (2006) Cardiovasc Res 69, 562-73.</li> <li>Visse, R. and Nagase, H. (2003) Circ Res 92, 827-39.</li> <li>Stetler-Stevenson, W.G. (2008) Sci Signal 1, re6.</li> <li>Noel, A. et al. (2004) J Clin Pathol 57, 577-84.</li> <li>Hojilla, C.V. et al. (2003) Br J Cancer 89, 1817-21.</li> <li>Gill, S.E. and Parks, W.C. (2008) Int J Biochem Cell Biol 40, 1334-47.</li> </ol>					

**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** 

WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

8. Weber, B.H. et al. (1994) Nat Genet 8, 352-6. 9. Yeow, K.M. et al. (2002) Matrix Biol 21, 75-88.

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7. Raffetto, J.D. and Khalil, R.A. (2008) Biochem Pharmacol 75, 346-59.

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