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TIM-3 (D3M9R) XP^{\otimes} Rabbit mAb



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For Research Use Only Applications: WB, IP, IHC-Bond, IHC- P	Reactivity:	Sensitivity: Endogenous	MW (kDa): 45-80	Source/Isotype: Rabbit IgG	UniProt ID: #Q8VIM0	Entrez-Gene Id: 171285	
Product Usage Information	A	Application			Dilution		
	W	Western Blotting			1:1000		
	Im	munoprecipitation			1	:100	
	IH	C Leica Bond			1	:800	
	Im	Immunohistochemistry (Paraffin)			1:200		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #72911.					
Specificity / Sensitivity		TIM-3 (D3M9R) XP [®] Rabbit mAb recognizes endogenous levels of total TIM-3 protein.					
Source / Purificat		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro137 of mouse TIM-3 protein.					
Background		T cell Ig- and mucin-domain-containing molecules (TIMs) are a family of transmembrane proteins expressed by various immune cells. TIM-3 is an inhibitory molecule that is induced following T cell activation (1-3). TIM-3 is expressed by exhausted T cells in the settings of chronic infection and cancer (4,5), and tumor-infiltrating T cells that coexpress PD-1 and TIM-3 exhibit the most severe exhausted phenotype (5). Tumor-infiltrating dendritic cells (DCs) also express TIM-3. TIM-3 expression on DCs was found to suppress innate immunity by reducing the immunogenicity of nucleic acids released by dying tumor cells (6). Research studies show that heterodimerization of TIM-3 with CEACAM-1 is critical for the inhibitory function of TIM-3, and co-blockade of TIM-3 and CEACAM-1 enhanced anti-tumor responses in a mouse model of colorectal cancer (7). In addition, blockade of TIM-3 in mouse models of autoimmunity enhanced the severity of disease (1). Finally, binding of Galectin-9 to TIM-3 expressed by Th1 cells induces T cell death (8).					
Background Refe	2. \$ 3. \$ 4. \$ 5. \$ 6. 0 7. F	Monney, L. et al. (200 Sánchez-Fueyo, A. e Sabatos, C.A. et al. (Iones, R.B. et al. (20 Sakuishi, K. et al. (20 Chiba, S. et al. (2012 Huang, Y.H. et al. (20 Zhu, C. et al. (2005)	t al. (2003) Nat In 2003) Nat Immun 108) J Exp Med 20 100) J Exp Med 20 2) Nat Immunol 13 115) Nature 517,	mmunol 4, 1093-101. nol 4, 1102-10. 05, 2763-79. 07, 2187-94. 3, 832-42. 386-90.			

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 nonfat dry

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation IHC-Bond: IHC Leica Bond

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

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Limited Uses

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