

TIM-3 (D3M9R) XP® Rabbit mAb



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Applications: R W, IP, IHC-Bond, IHC-P	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 45-80	Source/Isotype: Rabbit IgG	UniProt ID: #Q8VIM0	Entrez-Gene Id 171285
Product Usage		Application Western Blotting Immunoprecipitation IHC Leica Bond			Dilution 1:1000 1:100 1:800	
Information						
		Immunohistochemistry (Paraffin)			1:200	
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 #72911.				
Specificity/Sensitiv	vity	TIM-3 (D3M9R) XP [®] Rabbit mAb recognizes endogenous levels of total TIM-3 protein.				
Source / Purification	on	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 Refere	ences	1. Monney, L. et al. (2002) <i>Nature</i> 415, 536-41. 2. Sánchez-Fueyo, A. et al. (2003) <i>Nat Immunol</i> 4, 1093-101. 3. Sabatos, C.A. et al. (2003) <i>Nat Immunol</i> 4, 1102-10. 4. Jones, R.B. et al. (2008) <i>J Exp Med</i> 205, 2763-79. 5. Sakuishi, K. et al. (2010) <i>J Exp Med</i> 207, 2187-94. 6. Chiba, S. et al. (2012) <i>Nat Immunol</i> 13, 832-42. 7. Huang, Y.H. et al. (2015) <i>Nature</i> 517, 386-90. 8. Zhu, C. et al. (2005) <i>Nat Immunol</i> 6, 1245-52.				
Species Reactivity		Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).

Species Reactivity

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

W: Western Blotting IP: Immunoprecipitation IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key

M: Mouse

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