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TIM-3 (D5D5R[™]) XP[®] Rabbit mAb (PE Conjugate)



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-L	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q8TDQ0	Entrez-Gene Id: 84868
Product Usage Information		Application Flow Cytometry (Live)			Dilution 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		TIM-3 (D5D5R™) XP [®] Rabbit mAb (PE Conjugate) recognizes endogenous levels of total TIM-3 protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the extracellular domain of human TIM-3 protein.			
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated TIM-3 (D5D5R™) XP [®] Rabbit mAb #45208.			
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 References		 Monney, L. et al. (2002) <i>Nature</i> 415, 536-41. Sánchez-Fueyo, A. et al. (2003) <i>Nat Immunol</i> 4, 1093-101. Sabatos, C.A. et al. (2003) <i>Nat Immunol</i> 4, 1102-10. Jones, R.B. et al. (2008) <i>J Exp Med</i> 205, 2763-79. Sakuishi, K. et al. (2010) <i>J Exp Med</i> 207, 2187-94. Chiba, S. et al. (2012) <i>Nat Immunol</i> 13, 832-42. Huang, Y.H. et al. (2015) <i>Nature</i> 517, 386-90. Zhu, C. et al. (2005) <i>Nat Immunol</i> 6, 1245-52. 			
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).			
Applications Key		FC-L: Flow Cytometry (Live)			
Cross-Reactivity Key		H: Human			
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