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TIM-3 (D5D5R™) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate)

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
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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 (Alexa Fluor® 488 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 Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometric 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	<ol style="list-style-type: none"> 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 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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