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



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

Applications:Reactivity:Sensitivity:Source/Isotype:UniProt ID:Entrez-Gene Id:FC-LHEndogenousRabbit IgG#Q8TDQ084868

Product Usage
InformationApplicationDilution
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.

Product DescriptionThis Cell Signaling Technology antibody is conjugated to Alexa Fluor[®] 488 fluorescent dye and tested inhouse 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 $^{\text{TM}}$) XP $^{\text{B}}$ 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

- 1. Monney, L. et al. (2002) Nature 415, 536-41.
- 2. Sánchez-Fueyo, A. et al. (2003) Nat Immunol 4, 1093-101.
- 3. Sabatos, C.A. et al. (2003) Nat Immunol 4, 1102-10.
- 4. Jones, R.B. et al. (2008) J Exp Med 205, 2763-79.
- 5. Sakuishi, K. et al. (2010) *J Exp Med* 207, 2187-94.
- 6. Chiba, S. et al. (2012) Nat Immunol 13, 832-42.
- 7. Huang, Y.H. et al. (2015) Nature 517, 386-90.
- 8. Zhu, C. et al. (2005) Nat Immunol 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 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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