

Galectin-9 (D9R4A) XP[®] Rabbit mAb (Alexa Fluor[®] 488 Conjugate)



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Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #O00182	Entrez-Gene Id: 3965
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		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		Galectin-9 (D9R4A) XP^{\otimes} Rabbit mAb (Alexa Fluor $^{\otimes}$ 488 Conjugate) recognizes endogenous levels of total galectin-9 protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant human galectin-9 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 Galectin-9 (D9R4A) XP [®] Rabbit mAb #54330.			
Background		Galectins are a family of β -galactose binding proteins that are characterized by an affinity for poly-Nacetyllactosamine-enriched glycoconjugates and a carbohydrate-binding site (1,2). Members of the galectin family have been implicated in a variety of biological functions, including cell adhesion (3), growth regulation (4), cytokine production (5), T-cell apoptosis (6), and immune responses (7).			
		regulates various immur galectin-9 to TIM-3 expre galectin-9 treatment of t cells and TIM-3+ dendrit to an increase in cells wir responses (11). CD44 is a CD44 expressed by indu- addition, galectin-9 was adenocarcinoma-infiltrat suppression of anti-tumo	essed by Th1 CD4 T cells r umor-bearing mice increa c cells (10). Transgenic ov th a myeloid-derived supp also proposed to be a rece ced regulatory T (iTreg) ce recently demonstrated to ing macrophages, resulti or immunity. Increased ga ung, liver, breast, and kidi	eraction with its ligal esulted in T cell deal ased the number of verexpression of eith pressor cell phenoty peptor for galectin-9, alls enhanced the state in bind Dectin-1 expression tolerogenic malectin-9 expression	nd TIM-3 (8, 9). Binding of th (9). On the other hand, IFN-y-producing TIM-3+ CD8 T ler TIM-3 or galectin-9 in mice led pe and inhibition of immune and interaction of galectin-9 with sbillity of function of iTreg cells. In essed by pancreatic ductal acrophage reprogramming and has been observed in several
Background References		1. Barondes, S.H. et al. (1994) <i>Cell</i> 76, 597-8. 2. Barondes, S.H. et al. (1994) <i>J Biol Chem</i> 269, 20807-10. 3. Offner, H. et al. (1990) <i>J Neuroimmunol</i> 28, 177-84. 4. Wells, V. and Mallucci, L. (1991) <i>Cell</i> 64, 91-7. 5. Filer, A. et al. (2009) <i>Arthritis Rheum</i> 60, 1604-14. 6. Perillo, N.L. et al. (1995) <i>Nature</i> 378, 736-9. 7. Cooper, D.N. et al. (1991) <i>J Cell Biol</i> 115, 1437-48. 8. Gieseke, F. et al. (2013) <i>Eur J Immunol</i> 43, 2741-9. 9. Zhu, C. et al. (2005) <i>Nat Immunol</i> 6, 1245-52. 10. Nagahara, K. et al. (2008) <i>J Immunol</i> 181, 7660-9. 11. Dardalhon, V. et al. (2010) <i>J Immunol</i> 185, 1383-92. 12. Heusschen, R. et al. (2014) <i>Biochim Biophys Acta</i> 1842, 284-92. 13. Heusschen, R. et al. (2013) <i>Biol Reprod</i> 88, 22.			

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human

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