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VISTA (D1L2G™) XP® Rabbit mAb (PE Conjugate)



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

Applications: FC-FP	Reactivity: H Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q9H7M9	Entrez-Gene Id: 64115
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	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	VISTA (D1L2G™) XP® Rabbit mAb (PE Conjugate) recognizes endogenous levels of total VISTA protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human VISTA protein.	
Product 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 VISTA (D1L2G™) XP® Rabbit mAb #64953.	
Background	VISTA (V-Domain Ig Suppressor of T Cell Activation) is a negative checkpoint control protein that regulates T cell activation and immune responses. VISTA, which contains a single Ig-like V-type domain, a transmembrane domain, and an intracellular domain, has sequence similarity to both the B7 and CD28 family members. Although primarily expressed by myeloid cells, VISTA is also expressed by CD4+, CD8+, and FoxP3+ T-cells. Thus, VISTA is described as both a ligand and a receptor (1-3). Blocking VISTA induces T-cell activation and proliferation, and potentiates disease severity in the EAE model (1). Furthermore, genetic deletion of VISTA in mice leads to spontaneous T-cell activation and chronic inflammation (4,5). In mouse models of cancer, neutralization of VISTA enhances T-cell proliferation and effector function and increases tumor infiltration, suggesting VISTA blockade could be an effective strategy for tumor immunotherapy (6,7).	
Background References	<ol style="list-style-type: none"> 1. Wang, L. et al. (2011) <i>J Exp Med</i> 208, 577-92. 2. Flies, D.B. et al. (2011) <i>J Immunol</i> 187, 1537-41. 3. Lines, J.L. et al. (2014) <i>Cancer Res</i> 74, 1924-32. 4. Wang, L. et al. (2014) <i>Proc Natl Acad Sci U S A</i> 111, 14846-51. 5. Liu, J. et al. (2015) <i>Proc Natl Acad Sci U S A</i> 112, 6682-7. 6. Le Mercier, I. et al. (2014) <i>Cancer Res</i> 74, 1933-44. 7. Lines, J.L. et al. (2014) <i>Cancer Immunol Res</i> 2, 510-7. 	

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 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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