Revision 11

#64953 Store at -20C

VISTA (D1L2G™) XP® Rabbit mAb

Cell Signaling TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-Bond, IHC-P, FC-FP	H Mk	Endogenous	45-65	Rabbit IgG	#Q9H7M9	64115

Product Usage Information

Application	Dilution
Western Blotting	1:1000
IHC Leica Bond	1:100 - 1:400
Immunohistochemistry (Paraffin)	1:100 - 1:400
Flow Cytometry (Fixed/Permeabilized)	1:50 - 1:200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

For a carrier-free (BSA and azide free) version of this product see product #82119.

Specificity / Sensitivity

VISTA (D1L2G™) XP® Rabbit mAb recognizes endogenous levels of total VISTA protein. Non-specific staining was observed in kidney and prostate epithelium by immunohistochemistry.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human VISTA protein.

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

1. Wang, L. et al. (2011) *J Exp Med* 208, 577-92.
2. Flies, D.B. et al. (2011) *J Immunol* 187, 1537-41.
3. Lines, J.L. et al. (2014) *Cancer Res* 74, 1924-32.
4. Wang, L. et al. (2014) *Proc Natl Acad Sci U S A* 111, 14846-51.
5. Liu, J. et al. (2015) *Proc Natl Acad Sci U S A* 112, 6682-7.
6. Le Mercier, I. et al. (2014) *Cancer Res* 74, 1933-44.
7. Lines, J.L. et al. (2014) *Cancer Immunol Res* 2, 510-7.

Species Reactivity

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

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)
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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