

Store at  
-20C  
#54979**VISTA (D5L5T) XP<sup>®</sup> Rabbit mAb**

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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:
W, IP, IHC-Bond, IHC-P, IF-F, IF-IC	H M R	Endogenous	45-65	Rabbit IgG	#Q9D659	74048

**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation  
IHC Leica Bond  
Immunohistochemistry (Paraffin)  
Immunofluorescence (Frozen)  
Immunofluorescence (Immunocytochemistry)

**Dilution**

1:1000  
1:50  
1:300  
1:300  
1:200  
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 #56548.

**Specificity/Sensitivity**

VISTA (D5L5T) XP<sup>®</sup> Rabbit mAb recognizes endogenous levels of total VISTA protein. This antibody is not recommended for immunohistochemical analysis of human tissues. Instead, VISTA (D1L2G<sup>™</sup>) XP<sup>®</sup> Rabbit mAb #64953 is suggested.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val291 of mouse 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **IP:** Immunoprecipitation **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin) **IF-F:** Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key**

**H:** Human **M:** Mouse **R:** Rat

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