

PRODUCT INFORMATION

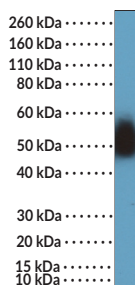
VISTA Rabbit Monoclonal Antibody (Clone RM503)

Item No. 42854

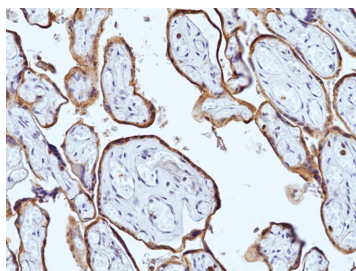
Overview and Properties

Contents:	This vial contains 100 µl of protein A-affinity purified monoclonal antibody.
Synonyms:	B7-H5, PD-1H, Platelet Receptor Gi24, Programmed Death-1 Homolog, SISP1, Stress-induced Secreted Protein-1, V-domain Ig Suppressor of T cell Activation, V-set Immunoregulatory Receptor, VSIR, V-type Immunoglobulin Domain-containing Suppressor of T cell Activation
Immunogen:	A peptide corresponding to residues near the C-terminus of human VISTA
Cross Reactivity:	(+) VISTA
Species Reactivity:	(+) Human, mouse, rat
Form:	Liquid
Storage:	-20°C (as supplied)
Stability:	≥1 year
Storage Buffer:	PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide
Clone:	RM503
Host:	Rabbit
Isotype:	IgG
Applications:	Immunohistochemistry (IHC) and Western blot (WB); the recommended starting dilution is 1:100-1:200 for IHC and 1:1,000-1:2,000 for WB. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

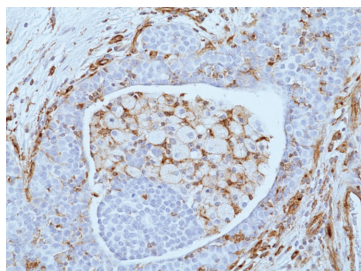
Images



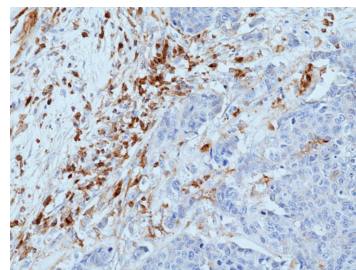
WB of mouse spleen tissue lysates using VISTA Rabbit Monoclonal Antibody (Clone RM503) at a dilution of 1:1,000.



Immunohistochemical staining of formalin-fixed and paraffin-embedded placenta tissue using VISTA Rabbit Monoclonal Antibody (Clone RM503) at a dilution of 1:200.



Immunohistochemical staining of formalin-fixed and paraffin-embedded breast cancer tissue using VISTA Rabbit Monoclonal Antibody (Clone RM503) at a dilution of 1:100.



Immunohistochemical staining of formalin-fixed and paraffin-embedded colon cancer tissue using VISTA Rabbit Monoclonal Antibody (Clone RM503) at a dilution of 1:100.

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 03/28/2025

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM

PRODUCT INFORMATION



Description

V-type immunoglobulin domain-containing suppressor of T cell activation (VISTA) is a type I transmembrane protein and negative immune checkpoint regulator.¹⁻⁴ It is composed of an N-terminal immunoglobulin (Ig) V domain, a stalk domain, a transmembrane domain, and a cytoplasmic domain.² VISTA is primarily expressed in myeloid lineage hematopoietic cells, as well as the spleen, placenta, and other tissues with infiltrating leukocytes.³⁻⁵ It is involved in immunosuppression of T cell activation and acts as a ligand and receptor.¹⁻⁴ Increased protein levels of VISTA in tumor-infiltrating immune cells are associated with increased relapse-free survival in patients with estrogen receptor-negative, progesterone receptor-negative, triple-negative, HER2-positive, or basal-like breast cancer.⁶ Protein levels of VISTA are also increased in peripheral blood mononuclear cells (PBMCs) isolated from patients with myasthenia gravis.⁷ Cayman's VISTA Rabbit Monoclonal Antibody (Clone RM503) can be used for immunohistochemistry (IHC) and Western blot (WB) applications.

References

1. ElTanbouly, M.A., Croteau, W., Noelle, R.J., *et al.* VISTA: A novel immunotherapy target for normalizing innate and adaptive immunity. *Semin. Immunol.* **42**, 101308 (2019).
2. Nowak, E.C., Lines, J.L., Varn, F.S., *et al.* Immunoregulatory functions of VISTA. *Immunol. Rev.* **276(1)**, 66-79 (2017).
3. Ni, L. and Dong, C. New checkpoints in cancer immunotherapy. *Immunol. Rev.* **276(1)**, 52-65 (2017).
4. Wang, G., Tai, R., Wu, Y., *et al.* The expression and immunoregulation of immune checkpoint molecule VISTA in autoimmune diseases and cancers. *Cytokine Growth Factor Rev.* **52**, 1-14 (2020).
5. Lines, J.L., Pantazi, E., Mak, J., *et al.* VISTA is an immune checkpoint molecule for human T cells. *Cancer Res.* **74(7)**, 1924-1932 (2014).
6. Zong, L., Mo, S., Yu, S., *et al.* Expression of the immune checkpoint VISTA in breast cancer. *Cancer Immunol. Immunother.* **69(8)**, 1437-1446 (2020).
7. Ren, Y., Qi, F., Li, J., *et al.* Expression and correlation analysis of VISTA in peripheral blood mononuclear cells of myasthenia gravis patients. *Int. Immunopharmacol.* **148:114096**, (2025).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM