

Technical Data Sheet

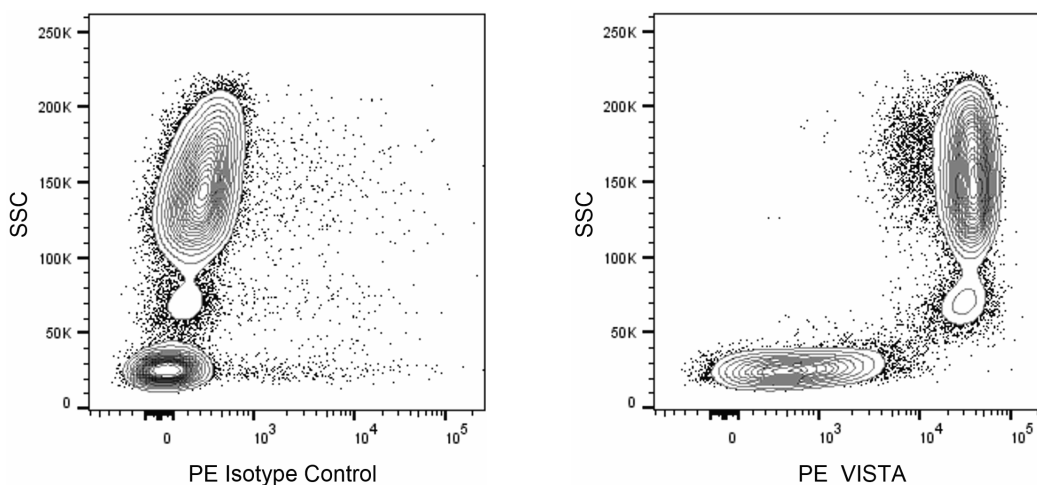
PE Mouse Anti-Human VISTA

Product Information

Material Number:	566672
Alternate Name:	VSIR; B7-H5; B7H5; C10orf54; DD1alpha; GI24; SISP1
Size:	25 Tests
Vol. per Test:	5 µl
Clone:	MIH65.rMAb (also known as MIH65)
Immunogen:	Human VISTA Transfected Cell Line
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The MIH65.rMAb is a recombinant monoclonal antibody derived from MIH65 hybridoma cells. MIH65.rMAb specifically binds to human V-domain Ig suppressor of T cell activation (VISTA) like the conventional MIH65 antibody and performs like the MIH65 antibody when used to stain cells and analyze them by flow cytometry. VISTA is also known as B7-H5 (B7H5), PD-1H, DD1alpha (DD1α), chromosome 10 open reading frame 54 (C10orf54), Platelet Receptor Gi24 (GI24), or Stress induced secreted protein 1 (SISP1). VISTA is a 55-65 kDa single-pass, type I transmembrane glycoprotein that is encoded by *VSIR* (V-set immunoregulatory receptor) which belongs to the V-set domain containing family within the Ig superfamily. VISTA is primarily expressed on precursors and mature cells of the hematopoietic lineage including, monocytes, macrophages, neutrophils, dendritic cells (DC), T cells, regulatory T cells (Treg), and natural killer (NK) cells but not B cells. VISTA functions as an inhibitory regulator that can suppress T cell proliferation and cytokine production.



Multiparameter flow cytometric analysis of VISTA expression on human peripheral blood leucocyte populations. Human whole blood was treated with BD Pharm Lyse™ Lysing Buffer (Cat. No. 555899) to lyse erythrocytes. The leucocytes were then washed and stained with either PE Mouse IgG1, κ Isotype Control (Cat. No. 554680; Left Plot) or PE Mouse Anti-Human VISTA antibody (Cat. No. 566669/566672; Right Plot). Two-parameter flow cytometric contour plots showing the correlated expression of VISTA (or Ig Isotype control staining) versus side light-scatter (SSC-A) signals were derived from gated events with the forward and side light-scatter characteristics of viable leucocyte populations. Flow cytometric analysis was performed using a BD LSRFortessa™ Cell Analyzer System.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
----------------	------------------

BD Biosciences

bdbiosciences.com

United States 877.232.8995 Canada 866.979.9408 Europe 32.2.400.98.95 Japan 0120.8555.90 Asia Pacific 65.6861.0633 Latin America/Caribbean 55.11.5185.9995

For country contact information, visit bdbiosciences.com/contact

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.
© 2017 BD. BD, the BD Logo and all other trademarks are property of Becton, Dickinson and Company.



Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
554680	PE Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
566669	PE Mouse Anti-Human VISTA	100 Tests	MIH65.rMAb
555899	Lysing Buffer	100 mL	(none)
349202	BD FACST [™] Lysing Solution	100 mL	(none)
554656	Stain Buffer (FBS)	500 mL	(none)
554657	Stain Buffer (BSA)	500 mL	(none)

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100- μ l experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. Please refer to www.regdocs.bd.com to access safety data sheets (SDS).
7. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.

References

Bharaj P, Chahar HS, Alozie OK, et al. Characterization of programmed death-1 homologue-1 (PD-1H) expression and function in normal and HIV infected individuals. *PLoS ONE*. 2014; 9(10):e109103. (Biology)

Wang L, Rubinstein R, Lines JL, et al. VISTA, a novel mouse Ig superfamily ligand that negatively regulates T cell responses. *J Exp Med*. 2011; 208(3):577-92. (Biology)