

iFluor™ 488 Conjugated Anti-VISTA Antibody [PSH0-65] HA720183F



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	FC
Molecular Wt:	Predicted band size: 34 kDa
Clone number:	PSH0-65

Description: V-domain Ig suppressor of T cell activation (VISTA) is a type I transmembrane protein that functions as an immune checkpoint and is encoded by the C10orf54 gene. VISTA is approximately 50kDa and belongs to the immunoglobulin superfamily and has one IgV domain. VISTA is part of the B7 family, is primarily expressed in white blood cells and its transcription is partially controlled by p53. There is evidence that VISTA can act as both a ligand and a receptor on T cells to inhibit T cell effector function and maintain peripheral tolerance. VISTA is produced at high levels in tumor-infiltrating lymphocytes, such as myeloid-derived suppressor cells and regulatory T cells, and its blockade with an antibody results in delayed tumor growth in mouse models of melanoma and squamous cell carcinoma. Monocytes from HIV-infected patients produce higher levels of VISTA compared to uninfected individuals. The increased VISTA levels correlated with an increase in immune activation and a decrease in CD4-positive T cells. There is an ongoing cancer immunotherapy clinical trial for a monoclonal antibody targeting VISTA in advanced cancer. Preliminary results of the phase I clinical trial show good safety tolerance and anti-cancer activity in patients with advanced tumours. Another ongoing clinical trial involves a small molecule that antagonizes the programmed death-ligands 1 and 2 (PD-L1 and PD-L2), and VISTA pathways in patients with advanced solid tumors or lymphomas.

Conjugate:	iFluor™ 488, Ex: 491nm; Em: 516nm.
Immunogen:	Recombinant protein within human VISTA aa 1-194 / 311.
Positive control:	human peripheral blood cells
Subcellular location:	Cell membrane.
Database links:	SwissProt: Q9H7M9 Human
Recommended Dilutions:	
FC	1:500-1:1,000
Storage Buffer:	Preservative: 0.02% Sodium azide Constituents: 30% Glycerol, 1% BSA, 68.98% PBS.
Storage Instruction:	Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.
Purity:	Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

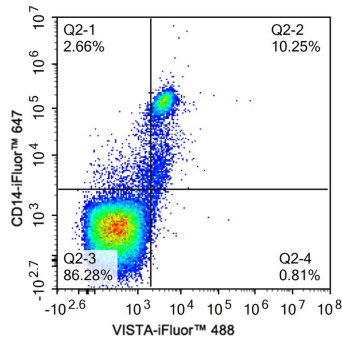


Fig1: Flow cytometry analysis of human peripheral blood cells labelling VISTA with Rabbit anti-VISTA antibody (HA720183F) and CD14 with Rabbit anti-CD14 antibody (HA720184F).

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Yuan L et al. VISTA: A Mediator of Quiescence and a Promising Target in Cancer Immunotherapy. Trends Immunol. 2021 Mar
2. Huang X et al. VISTA: an immune regulatory protein checking tumor and immune cells in cancer immunotherapy. J Hematol Oncol. 2020 Jun

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