

PE Human Vista Protein (C-Fc)

Catalog Number:	814201, 814202
Size:	25 ug, 100 ug
Target Name:	B7-H5, SISP1, Gi24, VISTA
Regulatory Status:	RUO

PRODUCT DETAILS

Application:	Flow Cytometry
Format:	Liquid, PE
Expression Host:	CHO
Species:	Human
Sources:	Recombinant Human Vista (Phe33-Ala194) with C-terminus Fc-tag is expressed in CHO cell and conjugated to PE.
Accession Number:	Q9H7M9
Molecular Weight:	The protein has a predicted molecular weight of 45 kDa. Under DTT-reducing conditions, it migrates at approximately 55-65 kDa on SDS-PAGE prior to conjugation.
Affinity Tag:	C-Fc
Formulation:	1xPBS buffer, pH7.4, 0.09% NaN3 with a carrier protein
Endotoxin level:	Not tested
Protein Concentration:	25µg size is bottled at 0.1mg/mL concentration. 100 µg size is bottled at lot specific concentration.
Storage and Handling:	Briefly centrifuge the vial upon receipt. An unopened vial may be stored at 2-8°C for up to six months.

BACKGROUND INFORMATION

VISTA (V-domain Ig suppressor of T cell activation), also known as VSIR, PD-1H, or C10orf54, is a type I transmembrane protein with a single IgV-like extracellular domain and functions as an inhibitory immune checkpoint molecule. It is broadly expressed on myeloid cells, T cells, dendritic cells, and in tissues such as spleen and bone marrow. VISTA suppresses CD4⁺ and CD8⁺ T cell activation and cytokine production, contributing to immune tolerance and regulation. It may also play a role in embryonic stem cell differentiation by modulating BMP4 signaling. VISTA undergoes proteolytic cleavage, generating both soluble and membrane-bound fragments, and its interaction with PSGL1 in low-pH tumor microenvironments has been reported. Due to its immunosuppressive properties, VISTA is considered a promising target for cancer immunotherapy and may be involved in inflammatory conditions such as chronic rhinosinusitis with nasal polyps.