

PE Human Vista Protein (C-Fc)

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

PRODUCT DETAILS

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| 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.