

## Technical Data Sheet

### PE conjugated Human Vista (C-Fc)

**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:** FC

**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% NaN<sub>3</sub> 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

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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<sup>+</sup> and CD8<sup>+</sup> 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.