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VISTA/B7-H5

Catalog # PVGS1605

Product Information

Primary Accession	Q9H7M9
Species	Human
Sequence	Phe33-Ala194
Purity	> 90% as analyzed by SDS-PAGE
Endotoxin Level	
Expression System	HEK 293
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH_2O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Additional Information

Gene ID	64115
Other Names	V-type immunoglobulin domain-containing suppressor of T-cell activation, Platelet receptor Gi24 {ECO:0000303|Ref.1}, Stress-induced secreted protein-1 {ECO:0000303|Ref.2}, Sisp-1 {ECO:0000303|Ref.2}, V-set domain-containing immunoregulatory receptor, VSIR (HGNC:30085)
Target Background	V-domain Ig suppressor of T cell activation (VISTA), also known as B7-H5, is a type I transmembrane protein that functions as an immune checkpoint. VISTA belongs to the immunoglobulin superfamily and has one IgV domain. It is primarily expressed in white blood cells and its transcription is partially controlled by p53. VISTA can act as both a ligand and a receptor on T cells to inhibit T cell effector function and maintain peripheral tolerance. VISTA may also promote differentiation of embryonic stem cells by inhibiting BMP4 signaling (By similarity) and may stimulate MMP14-mediated MMP2 activation.

Protein Information

Name	VSIR (HGNC:30085)
Function	Immunoregulatory receptor which inhibits the T-cell response (PubMed:24691993). May promote differentiation of embryonic stem cells, by inhibiting BMP4 signaling (By similarity). May stimulate MMP14- mediated MMP2 activation (PubMed:20666777).
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Expressed in spleen. Detected on a number of myeloid cells including CD11b monocytes, CD66b+ neutrophils, at low levels on CD4+ and CD8+ T-cells, and in a subset of NK cells. Not detected on B cells (at protein level). Expressed at high levels in placenta, spleen, plasma blood leukocytes, and lung. Expressed at moderate levels in lymph node, bone marrow, fat, uterus, and trachea Has low expression levels in other tissues

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.