Recombinant Human B7-H4/VTCN1 Protein

Catalog No.: RP00218

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Sequence Information

Species
Human

Gene ID
79679

Swiss Prot
Q7Z7D3

Tags
C-His

Synonyms
VTCN1,B7-H4,B7H4,B7S1,B7X,B7h.5,PRO1291,VCTN1

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
26.16 kDa

Observed MW
45-60 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

B7 homolog 4 (B7-H4, VTCN1) is a member of the B7 family of cell surface ligands that regulate T cell activation and immune responses.B7-H4 is expressed on the surface of activated lymphocytes, macrophages, monocytes, dendritic cells, epithelial cells, and bone marrow-derived mesenchymal stem cells. Its binding to activated T cells dampens T cell responses and induces cell cycle arrest in the T cell.The B7-H4 protein is also found in ovarian cancer , breast cancer, renal cell carcinoma, and rheumatoid arthritis patients.Research studies indicate that B7-H4 protein is present on the surface of ovarian tumor cells, and that targeted inhibition of B7-H4 using recombinant antibodies restores T cell activation pathways. These studies suggest some potential therapeutic value in blocking B7-H4 function and restoring T cell function in cancer patients.

Basic Information

Description
Recombinant Human B7-H4/VTCN1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Phe29-Ala258) of human B7-H4/B7S1/B7x (Accession #NP_078902.2) fused with a 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA.Immobilized Mouse B7-H4/VTCN1/VISTA (Catalog: RP00218) at 1 μg/mL (100 μL/well) can bind B7-H4/VTCN1 Rabbit pAb with a linear range of 0.2-22 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

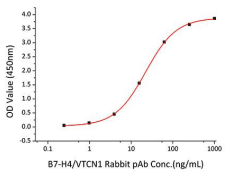
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

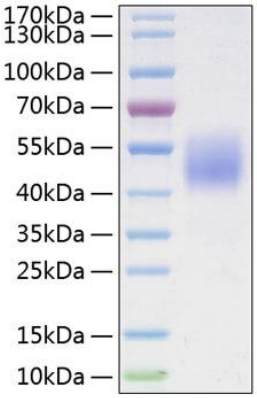
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Validation Data



Immobilized Mouse B7-H4/VTCN1/VISTA (Catalog: RP00218) at 1 μg/mL (100 μL /well) can bind B7-H4/VTCN1 Rabbit pAb with a linear range of 0.2-22 ng/mL.



Recombinant Human B7-H4/VTCN1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.