RP00218

Leader in Biomolecular Solutions for Life Science

Recombinant Human B7-H4/VTCN1 Protein

Catalog No.: RP00218 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 79679 0777D3

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Tags C-His

Synonyms

VTCN1;B7-H4;B7H4;B7S1;B7X;B7h.5;PRO1291;VCT N1

Product Information

Source Purification HEK293 cells > 95% by SDS-PAGE.

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 votex 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.

Contact

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www.abclonal.com

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

Background

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.

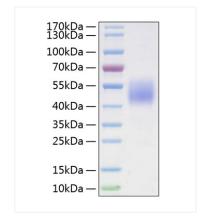
Bio-Activity

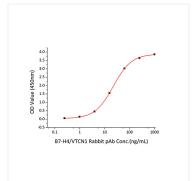
Measured by its binding ability in a functional ELISA.Immobilized Mouse B7-H4/VTCN1/VISTA (Catalog: RP00218) at 1 μ g/mL (100 μ L/well) can bind B7-H4/VTCN1 Rabbit pAb with a linear range of 0.2-22 ng/mL.

Storage

Store the lyophilized protein at -20°C to -80 °C for long term.
br>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.







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Recombinant Human B7-H4/VTCN1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 45-60 kDa.