Datasheet for ABIN7534307

# VTCN1 Protein (His tag)

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## Overview

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| Quantity: | 100 µg |
| Target: | VTCN1 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This VTCN1 protein is labelled with His tag. |

## Product Details

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| Purpose: | Active Recombinant Human B7-H4/VTCN1 Protein |
| Sequence: | FGISGRHSIT VTTVASAGNI GEDGILSCTF EPDIKLSDIV IQWLKEGVLG LVHEFKEGKD ELSEQDEMFR GRTAVFADQV IVGNASLRLK NVQLTDAGTY KCYIITSKGK GNANLEYKTG AFSMPEVNVD YNASSETLRC EAPRWFPQPT VVWASQVDQG ANFSEVSNTS FELNSENVTM KVVSVLYNVT INNTYSCMIE NDIAKATGDI KVTESEIKRR SHLQLLNSKA |
| Specificity: | Phe29-Ala258 |
| Purity: | > 95 % by SDS-PAGE. |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | < 0.1 EU/µg of the protein by LAL method. |
| Biological Activity Comment: | Measured by its binding ability in a functional ELISA.Immobilized Mouse B7-H4/VTCN1/VISTA at 1 µg/mL (100 µL/well) can bind B7-H4/VTCN1 Rabbit pAb with a linear range of 0.2-22 ng/mL. |

## Target Details

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| Target: | VTCN1 |
| Alternative Name: | B7-H4/VTCN1 (VTCN1 Products) |
| Background: | Description: 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.<br>Name: VTCN1,B7-H4,B7H4,B7S1,B7X,B7h.5,PRO1291,VCTN1 |
| Gene ID: | 79679 |
| UniProt: | Q7Z7D3 |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| 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. |
| Buffer: | Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | 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. |