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Datasheet for ABIN7534458
SECTM1 Protein (Fc Tag,His tag)

Overview

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|-------------------------------|--|
| Quantity: | 100 µg |
| Target: | SECTM1 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This SECTM1 protein is labelled with Fc Tag,His tag. |

Product Details

| | |
|------------------------------|---|
| Purpose: | Active Recombinant Human SECTM1 Protein |
| Sequence: | QNEGWDSPIC TEGVVSWSWG ENTVMSCNIS NAFSHVNIKL RAHGQESAIF NEVAPGYFSR DGWQLQVQGG VAQLVIKGAR DSHAGLYMWH LVGHQRNNRQ VTLEVSGAEP QSAPDTG |
| Specificity: | Gln29-Gly145 |
| Purity: | > 97 % 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 Human CD7 Protein at 1 µg/mL (100 µL/well) can bind SECTM1 with a linear range of 0.039-1.575 ng/mL.2.Measured by the ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells. When 8x10 ⁴ cells/well are added to SECTM1 coated plates (5 µg/mL and 100 µL/well) in the ppresence of 10µg/ml PHA, approximately 40-50% cells will adhere specifically |

Product Details

after 60 minutes at 37°C.

Target Details

Target: SECTM1

Alternative Name: SECTM1 ([SECTM1 Products](#))

Background: Description: This protein, also known as K12, is a transmembrane and secreted protein with characteristics of a type 1a transmembrane protein of SECTM family. It is found in a perinuclear Golgi-like pattern and thought to be involved in hematopoietic and/or immune system processes. The human K12 protein has been shown to be primarily expressed in spleen, prostate, testis, small intestine, and in peripheral blood leukocytes. The K12 protein is expressed on the cell surface in such small amounts as to preclude detection. Alternatively, it may be that K12 on the cell surface is rapidly cleaved to generate a soluble K12 protein. Immunohistochemical analysis of peripheral blood cells shows that K12 is found in leukocytes of the myeloid lineage, with the strongest staining observed in granulocytes and no detectable expression in lymphocytes. May be involved in thymocyte signaling. It had been suggested a role for thymic microenvironment-produced K12 in regulation of thymocyte signaling and cytokine release, particularly in the setting of thymus pathology where IFN-gamma is upregulated such as myasthenia gravis. In addition, as a putative natural CD7 ligand, SECTM1/K12 may be responsible for the costimulatory role it plays in T cell activation.

Name: SECTM1,K12

Gene ID: 6398

UniProt: [Q8WVN6](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

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 stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Handling

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.
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.