

Recombinant Human CD16b/FCGR3B Protein

Catalog Number:PKSH031290



Note: Centrifuge before opening to ensure complete recovery of vial contents.

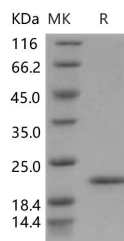
Description

Synonyms	Low affinity immunoglobulin gamma Fc region receptor III-B;Fc-gamma RIII-beta;FcR-10;IgG Fc receptor III-1;FCG3;FCGR3;CD16b and FCGR4B;FCRIII;FCRIIIb
Species	Human
Expression Host	E.coli
Sequence	Met 18-Gly 193
Accession	O75015-1
Calculated Molecular Weight	20.0 kDa
Observed molecular weight	22 kDa
Tag	None
Bioactivity	Using the Octet RED System, the affinity constant (Kd) of CD16b bound to Human IgG1 was 80nM.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 20mM Tris, 50mM NaCl, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Carbohydrate sulfotransferase 15; also known as N-acetylgalactosamine 4-sulfate 6-O-sulfotransferase; GalNAc4S-6ST; B-cell RAG-associated gene protein; CHST15 and BRAG; is a single-pass type II membrane protein which belongs to the sulfotransferase 1 family. CHST15 / BRAG is expressed in B-cell-enriched tissues but not in fetal or adult thymus. It is expressed in fetal and adult spleen; lymph node; tonsil; bone marrow and peripheral leukocytes. It is not expressed in T-

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cells. In pro-B; pre-B; and mature B-cell lines; it colocalizes with RAG1. CHST15 / BRAG is a sulfotransferase that transfers sulfate from 3'-phosphoadenosine 5'-phosphosulfate (PAPS) to the C-6 hydroxyl group of the GalNAc 4-sulfate residue of chondroitin sulfate A and forms chondroitin sulfate E containing GlcA-GalNAc(4;6-SO₄) repeating units. It also transfers sulfate to a unique non-reducing terminal sequence; GalNAc(4SO₄)-GlcA(2SO₄)-GalNAc(6SO₄); to yield a highly sulfated structure similar to the structure found in thrombomodulin chondroitin sulfate. CHST15 / BRAG may also act as a B-cell receptor involved in BCR ligation-mediated early activation that mediate regulatory signals key to B-cell development and / or regulation of B-cell-specific RAG expression.

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