## 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

SpeciesHumanExpression HostE.coli

SequenceMet 18-Gly 193AccessionO75015-1Calculated Molecular Weight20.0 kDaObserved molecular weight22 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

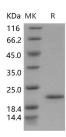
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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-

#### For Research Use Only

A Reliable Research Partner in Life Science and Medicine

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: www.elabscience.com Email: techsupport@elabscience.com

# Recombinant Human CD16b/FCGR3B Protein

Catalog Number:PKSH031290



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.

#### For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: www.elabscience.com Email: techsupport@elabscience.com