

## Recombinant Human CD16b/FCGR3B Protein

**Catalog No.** PKSH031290

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

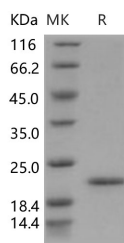
### Description

<b>Synonyms</b>	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;FCRIIb
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Met 18-Gly 193
<b>Accession</b>	O75015-1
<b>Calculated Molecular Weight</b>	20.0 kDa
<b>Observed molecular weight</b>	22 kDa
<b>Tag</b>	None
<b>Bioactivity</b>	Using the Octet RED System, the affinity constant (Kd) of CD16b bound to Human IgG1 was 80nM.

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	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.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



> 95 % as determined by reducing SDS-PAGE.

### For Research Use Only

## 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-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-SO<sub>4</sub>) repeating units. It also transfers sulfate to a unique non-reducing terminal sequence; GalNAc(4SO<sub>4</sub>)-GlcA(2SO<sub>4</sub>)-GalNAc(6SO<sub>4</sub>); 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.