A Reliable Research Partner in Life Science and Medicine

Recombinant Human KLRB1/CD161 Protein (Fc Tag)

Catalog No. PKSH032676

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

Description

Synonyms Killer cell lectin-like receptor subfamily B member

1;KLRB1;CLEC5B;NKRP1A;CD161;Natural killer cell surface protein P1A;NKR-

P1A;HNKR-P1a;C-type lectin domain family 5 member B;KLRB1

Species Human

Expression Host

Sequence

Gln67-Ser225

Accession

Q12918

Calculated Molecular Weight

Observed molecular weight

Tag

HEK293 Cells

Gln67-Ser225

45.6 kDa

55-70 kDa

C-Fc

Bioactivity Not validated for activity

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

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 a 0.2 μm filtered solution of PBS, pH 7.4.

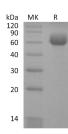
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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

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

Elabscience Bionovation Inc.



A Reliable Research Partner in Life Science and Medicine

Killer cell lectin-like receptor subfamily B, member 1(KLRB1) is a single-pass type II membrane protein which contains 1 C-type lectin domain. KLRB1 plays an inhibitory role on natural killer (NK) cells cytotoxicity. Activation results in specific acid sphingomyelinase/SMPD1 stimulation with subsequent marked elevation of intracellular ceramide. Activation also leads to AKT1/PKB and RPS6KA1/RSK1 kinases stimulation as well as markedly enhanced T-cell proliferation induced by anti-CD3. It acts as a lectin that binds to the terminal carbohydrate Gal-alpha(1,3)Gal epitope as well as to the N-acetyllactosamine epitope. Binds also to CLEC2D/LLT1 as a ligand and inhibits NK cell-mediated cytotoxicity as well as interferon-gamma secretion in target cells.

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017 Email: techsupport@elabscience.com

Web: www.elabscience.com