



### Recombinant Human KLRB1 Fc-Fusion Protein

Cat No: Pr00184-10.9

## Product Summary

**Description:** Recombinant human KLRB1 Fc-Fusion Protein manufactured using [AbAb's Recombinant Platform](#)

**Protein:** Human KLRB1

**Fc domain:** Human IgG1

**Structure / Form:** Disulfide-linked homodimer

**Species:** Human

**Construct Design Note(s):** The extracellular domain of KLRB1 has been fused to the Fc domain of human IgG1.

**Host:** HEK293

**UniProt Accession Number:** Q12918

**Alternative Description:** Killer cell lectin-like receptor subfamily B member 1, C-type lectin domain family 5 member B, HNKRP1a, NKR-P1A, Natural killer cell surface protein P1A, CD161; KLRB1-Ig; KLRB1-Fc chimera; KLRB1 (Fc tag)

**Published Application(s):**

**Tested Applications(s):**

**Activity:** 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. 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 [Uniprot].

## Product Form

**Purification:** IMAC purified

**Supplied in:** 0.1 mg size: PBS with preservative (0.02% Proclin 300), 1 mg size: PBS only.

**Endotoxin:** <1.0 EU/mg

**Shipping:** The product is shipped on blue ice. Upon receipt, store it immediately at the temperature recommended.

**Storage Recommendation:** Store at 4°C for up to 1 month. For longer term storage aliquot in small volumes and store at -20°C. Avoid repeated freeze-thaw cycles.

**Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals**

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**SDS PAGE Purity:** >95%, as determined by SDS-PAGE and visualized by Coomassie Brilliant Blue.

**Fc-Fusion Sequence (monomer)**

QKSSIEKCSVDIQSRNKTTTERPGLLNCPYIWQQLREKCLLFSHTVNPWNNLADCSTKESLLLIRDKDELIHTQNLIR  
DKAILFWIGLNFSLSEKNWKWINGSFLNSNDLEIRGDAKENSISISQTSVYSEYCSTEIRWICQKELTPVRNKVYPDSG  
GGGSEPKSQDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK  
TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTLC  
LVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLS  
PGHHHHHH

Underlined amino acids sequence include a G4S linker and 6xHis epitope tag, respectively.

**Calculated Molecular weight (dimer):** 91830 Da

**Extinction coefficient:** 150690 (calculation performed as described by Pace *et al.* (1995), PMID: 8563639).

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