

Datasheet for ABIN7548867

CD161 Protein (AA 1-225) (His tag)



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Overview

Quantity:	1 mg
Target:	CD161 (KLRB1)
Protein Characteristics:	AA 1-225
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD161 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant KLRB1 Protein expressed in mammalian cells.
Sequence:	MDQQAIYAEL NLPTDSGPES SSPSSLPRDV CQGSPWHQFA LKLSCAGIIL LVLVVTGLSV SVTSLIQKSS IEKCSVDIQQ SRNKTTERPG LLNCPIYWQQ LREKCLLFSL TVNPWNNSLA DCSTKESSLL LIRDKDELIH TQNLIRDKAI LFWIGLNFSL SEKNWKWING SFLNSNDLEI RGDAKENSCL SISQTSVYSE YCSTEIRWIC QKELTPVRNK VYPDS Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: Made to order protein - from design to production - by highly experienced protein experts.

Product Details

- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	CD161 (KLRB1)
Alternative Name:	KLRB1 (KLRB1 Products)
Background:	Killer cell lectin-like receptor subfamily B member 1 (C-type lectin domain family 5 member B) (HNKR-P1a) (NKR-P1A) (Natural killer cell surface protein P1A) (CD antigen CD161),FUNCTION: 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. {ECO:0000269 PubMed:16455998, ECO:0000269 PubMed:16925668, ECO:0000269 PubMed:8077657}.
Molecular Weight:	25.4 kDa
UniProt:	Q12918

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months