

Datasheet for ABIN7562400 CD94 Protein (AA 1-179) (His tag)



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1 mg CD94 (KLRD1) AA 1-179 Mouse HEK-293 Cells Recombinant		
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Mouse HEK-293 Cells Recombinant		
HEK-293 Cells Recombinant		
Recombinant		
This CD94 protein is labelled with His tag.		
Western Blotting (WB), SDS-PAGE (SDS)		
Custom-made recombinat Klrd1 Protein expressed in mammalien cells.		
MAVSRITRWR LMSVIFGIKC LFLMVTLGVL LINSFTIQNI QSTPSPTTTV EFQEVSECCV		
CLDKWVGHQC NCYFISKEEK SWKRSRDFCA SQNSSLLQPQ SRNELSFMNF SQTFFWIGMH		
YSEKRNAWLW EDGTVPSKDL FPEFSVIRPE HCIVYSPSKS VSAESCENKN RYICKKLPI 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.		
Key Benefits:		
Made to order protein - from design to production - by highly experienced protein experts.		
 Protein expressed in mammalien 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, Western Blot

Grade:

custom-made

Target Details

Target: CD94 (KLRD1)

Alternative Name:

Klrd1 (KLRD1 Products)

Background:

Natural killer cells antigen CD94 (Killer cell lectin-like receptor subfamily D member 1) (CD antigen CD94), FUNCTION: Immune receptor involved in self-nonself discrimination. In complex with KLRC1 or KLRC2 on cytotoxic and regulatory lymphocyte subsets, recognizes nonclassical major histocompatibility (MHC) class Ib molecule MHC-E loaded with self-peptides derived from the signal sequence of classical MHC class la and non-classical MHC class lb molecules. Enables cytotoxic cells to monitor the expression of MHC class I molecules in healthy cells and to tolerate self. Primarily functions as a ligand binding subunit as it lacks the capacity to signal. {ECO:0000250|UniProtKB:Q13241}., FUNCTION: KLRD1-KLRC1 acts as an immune inhibitory receptor. Key inhibitory receptor on natural killer (NK) cells that regulates their activation and effector functions. Dominantly counteracts T cell receptor signaling on a subset of memory/effector CD8-positive T cells as part of an antigen-driven response to avoid autoimmunity. On intraepithelial CD8-positive gamma-delta regulatory T cells triggers TGFB1 secretion, which in turn limits the cytotoxic programming of intraepithelial CD8-positive alphabeta T cells, distinguishing harmless from pathogenic antigens. In MHC-E-rich tumor microenvironment, acts as an immune inhibitory checkpoint and may contribute to progressive loss of effector functions of NK cells and tumor-specific T cells, a state known as cell exhaustion. Upon MHC-E-peptide binding, transmits intracellular signals through KLRC1

immunoreceptor tyrosine-based inhibition motifs (ITIMs) by recruiting INPP5D/SHIP-1 and INPPL1/SHIP-2 tyrosine phosphatases to ITIMs, and ultimately opposing signals transmitted by activating receptors through dephosphorylation of proximal signaling molecules. {ECO:0000250|UniProtKB:Q13241}., FUNCTION: KLRD1-KLRC2 acts as an immune activating receptor. On cytotoxic lymphocyte subsets recognizes MHC-E loaded with signal sequence-derived peptides from non-classical MHC class Ib MHC-G molecules, likely playing a role in the generation and effector functions of adaptive NK cells and in maternal-fetal tolerance during pregnancy. Regulates the effector functions of terminally differentiated cytotoxic lymphocyte subsets, and in particular may play a role in adaptive NK cell response to viral infection. Upon MHC-E-peptide binding, transmits intracellular signals via the adapter protein TYROBP/DAP12, triggering the phosphorylation of proximal signaling molecules and cell activation. {ECO:0000250|UniProtKB:Q13241}.

Molecular Weight:

20.8 kDa

UniProt:

054707

Application Details

Application Notes:

In addition to the applications listed above we expect the protein to work for functional studies as well. 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	