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## Recombinant human LILRB2/CD85d/ILT4 protein

Catalog Number: ATGP4042

### PRODUCT INFORMATION

## **Expression system**

**HEK293** 

#### **Domain**

24-461aa

#### UniProt No.

O8N423

#### **NCBI Accession No.**

NP 005865

#### **Alternative Names**

Leukocyte Immunoglobulin-like Receptor, CD85D, CD85d, CD85 antigen-like family member D, CD85d antigen, ILT-4, ILT4, ILT4CD85d, Ig-like transcript 4, Immunoglobulin-like transcript 4, LILRB2, LIR2, LIR-2, LIR2CD85D, Leukocyte immunoglobulin-like receptor 2, MIR10, MIR-10, MIR10LILRA6, Monocyte/macrophage immunoglobulin-like receptor 10, leukocyte immunoglobulin-like receptor subfamily B member 2 soluble isoform 1

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

48.3 kDa (444aa)

#### Concentration

0.5mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

#### **Purity**

> 95% by SDS-PAGE

## **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### Tag

His-Tag

## **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**



## Recombinant human LILRB2/CD85d/ILT4 protein

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## **Description**

LILRB2, also known as CD85d, LIR-2, and MIR10, is a member of the leukocyte immunoglobulin-like receptor (LIR) family. It is expressed on immune cells where it binds to MHC class I molecules on antigen-presenting cells and transduces a negative signal that inhibits stimulation of an immune response. Among them it competes with CD8 alpha for MHC I binding but does not compete with KIR2DL1. And it binds to classical MHC I proteins as well as the non-classical HLA-G1 and HLA-F molecules. This protein is thought to control inflammatory responses and cytotoxicity to help focus the immune response and limit autoreactivity. Recombinant human LILRB2, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

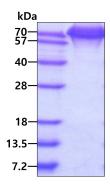
GTIPKPTLWA EPDSVITQGS PVTLSCQGSL EAQEYRLYRE KKSASWITRI RPELVKNGQF HIPSITWEHT GRYGCQYYSR ARWSELSDPL VLVMTGAYPK PTLSAQPSPV VTSGGRVTLQ CESQVAFGGF ILCKEGEDEH PQCLNSQPHA RGSSRAIFSV GPVSPNRRWS HRCYGYDLNS PYVWSSPSDL LELLVPGVSK KPSLSVQPGP VMAPGESLTL QCVSDVGYDR FVLYKEGERD LRQLPGRQPQ AGLSQANFTL GPVSRSYGGQ YRCYGAHNLS SECSAPSDPL DILITGQIRG TPFISVQPGP TVASGENVTL LCQSWRQFHT FLLTKAGAAD APLRLRSIHE YPKYQAEFPM SPVTSAHAGT YRCYGSLNSD PYLLSHPSEP LELVVSGPSM GSSPPPTGPI STPAGPEDQP LTPTGSDPQS GLGRHLGV<HH HHHH>

## **General References**

Fanger, N.A. et al. (1998) Eur. J. Immunol. 28:3423.
Baudhuin, J. et al. (2013) Proc. Natl. Acad. Sci. USA 110:17957-17962.
Shiroishi, M. et al. (2003) Proc. Natl. Acad. Sci. USA 100:8856-8861.
Borges, L. et al. (1997) J. Immunol. 159:5192-5196.

## **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

