

# Recombinant human CD161/KLRB1 protein

Catalog Number: ATGP3675

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

67-225aa

### UniProt No.

Q12918

### NCBI Accession No.

NP\_002249.1

### Alternative Names

Killer cell lectin like receptor B1, 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, CD161, CLEC5B, NKRP1A, NKR-P1

## PRODUCT SPECIFICATION

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### Molecular Weight

45.7 kDa (401aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

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

### Tag

hIgG-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

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### Description

KLRB1, also known as killer cell lectin-like receptor subfamily B member 1, is classified as a type II membrane protein because it has an external C terminus. It is expressed by NK cells and may be involved in the regulation of NK cell function. It plays a novel and important role in B cell maturation within the GC in humans. It is

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expressed by lymphocytes found in human gut and liver, as well as blood, especially natural killer (NK) cells, T helper 17 (Th17) cells, and a population of unconventional T cells known as mucosal-associated invariant T (MAIT) cells. It is also expressed, at intermediate levels, on a prominent subset of polyclonal CD8+ T cells, including antiviral populations that display a memory phenotype. Recombinant human KLRB1, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

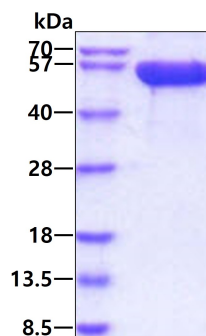
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<ADP>QKSSIEK CSVDIQQSRN KTTTERPGLLN CPIYWQQLRE KCLLSHTVN PWNNSLADCS TKESSLLLIR DKDELIHTQN  
LIRDKAILFW IGLNFSLSEK NWKWINGSFL NSNDLEIRGD AKENSCISIS QTSVYSEYCS TEIRWICQKE LTPVRNKVYP  
DS<LEPKSCDK THTCPAP ELLGGPSVFL FPPKPKDTLM ISRTPEVTCV VVDVSHEDPE VKFNWYVDGV EVHNAKTKPR  
EEQYNSTYRV VSVLTVLHQD WLNQKEYKCK VSNKALPAPI EKTISKAKGQ PREPQVYTLPSRDELTKNQ VSLTCLVKGF  
YPSDIAVEWE SNGQPENNYK TTPPVLDSDG SFFLYSKLTV DKSRWQQGNV FSCSVMEAL HNHYTQKSLSLSPGKHHHHH  
H>
```

## General References

Fergusson JR., et al. (2016) *Mucosal Immunol.* 9:401-413.  
Libre A1., et al. (2016) *J Immunol.* 196:2085-2094.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain