

# Recombinant human Fc gamma RIIB/CD32b protein

Catalog Number: ATGP4149

## PRODUCT INFORMATION

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### Expression system

HEK293

### Domain

46-217aa

### UniProt No.

P31994

### NCBI Accession No.

NP\_001002274.1

### Alternative Names

Low affinity immunoglobulin gamma Fc region receptor II-b isoform3, IgG Fc receptor II-b, CDw32, Fc-gamma RII-b, Fc-gamma-RIIb, FcRII-b, CD32, FCGR2B, FCG2, IGFR2, Fc fragment of IgG, low affinity II, low affinity IIb, Low affinity immunoglobulin gamma Fc region receptor II-c, IgG Fc receptor II-c, Fc-gamma RII-c, Fc fragment of IgG receptor IIb, Fc-gamma-RIIc, Fc gamma RIIb, CD32B, FcgammaRIIb, FCGR2, FCGR2C, FcGRIIB, FcRII-c

### Additional Information

ATGP1822 has replaced with a catalog number ATGP4149.

## PRODUCT SPECIFICATION

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### Molecular Weight

20.1kDa (178aa)

### Concentration

1mg/ml (determined by Absorbance at 280nm)

### Formulation

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

### Purity

> 95% by SDS-PAGE

### Endotoxin level

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

### Biological Activity

Measured by its binding ability in a functional ELISA with Human IgG1 Fc (CAT# ATGP4094).

### Tag

His-Tag

### Application

SDS-PAGE, Bioactivity

### Storage Condition

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

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repeated freezing and thawing cycles.

## BACKGROUND

### Description

Fc gamma RIIB/CD32b, also known as FCGR2B, belongs to the Ig superfamily. It is a low-affinity receptor for the Fc region of immunoglobulins gamma that are complexed or aggregated. It participates in various effector and regulatory functions, such as phagocytosis of immune complexes and modulation of antibody production by B cells. Fc gamma RIIB/CD32b is expressed on B cells, monocytes, dendritic cells, neutrophils, mast cells, and basophils. When Fc gamma RIIB is ligated, it inhibits B cell expansion, plasma cell differentiation, production of autoimmune rheumatoid factors, and down-regulates TLR4 with reduced LPS responsiveness. Recombinant human Fc gamma RIIB/CD32b, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

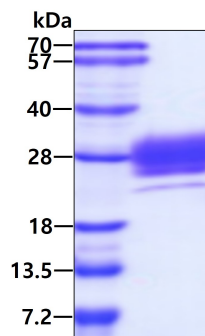
APPKAVLKLE PQWINVLQED SVTLTCRGTH SPESDSIQWF HNGNLIPHT QPSYRFKANN NDSGEYTCQT GQTSLSDPVH  
LTVLSEWLVL QTPHLEFQEG ETIVLRCHSW KDKPLVKVTF FQNGKSKKFS RSDPNFSIPQ ANHSHSGDYH CTGNIGYTLY  
SSKPVTITVQ AP<HHHHHH>

### General References

Van de Winkel, J. and P. Capes (1993) *Immunol. Today* 14:215-221.  
Raghaven, M. and P. Bjorkman (1996) *Annu. Rev. Cell Dev. Biol.* 12:181-220.  
Ravetch, J. and S. Bolland (2001) *Annu. Rev. Immunol.* 19:275-290.

## DATA

### SDS-PAGE



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

### Biological Activity

# Recombinant human Fc gamma RIIB/CD32b protein

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Human Fc gamma RIIB/CD32b (CAT# ATGP4149) is coated at 10 ug/ml (100 ul/well) can bind Human IgG1 Fc (CAT# ATGP4094) in a Functional ELISA assay.

