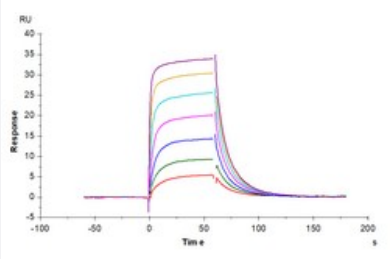
Bioactive CellTx™ HuPro®

FCGR3B (Human) Recombinant Protein

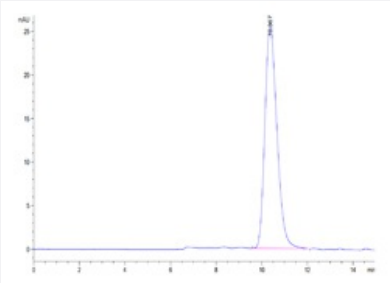
Catalog # P9763 Size 100 ug

Applications



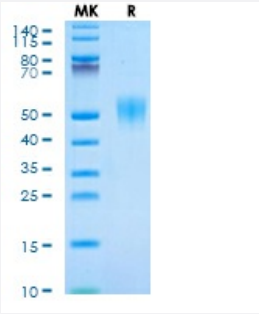
Surface Plasmon Resonance

Rituximab captured on CM5 Chip via Protein A can bind Human Fc gamma RIIIB (NA1) , His Tag with an affinity constant of 0.117 uM as determined in SPR assay (Biacore T200).



SEC-HPLC

The purity of Human Fc gamma RIIIB (NA1) is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human Fc gamma RIIIB (NA1) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human FCGR3B (AAA35881.1, Gly17-Ser200) partial recombinant protein with His tag at C-Terminus expressed in HEK293 cells.

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Sequence	Gly17-Ser200
Host	Human
Theoretical MW (kDa)	22
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human Fc gamma RIIIB (NA1) is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human Fc gamma RIIIB (NA1) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity SPR SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Functional Study
- SDS-PAGE
- Surface Plasmon Resonance

  Rituximab captured on CM5 Chip via Protein A can bind Human Fc gamma RIIIB (NA1) , His Tag with an affinity constant of 0.117 uM as determined in SPR assay (Biacore T200).

Gene Info — FCGR3B

Entrez GeneID	2215
Protein Accession#	AAA35881.1

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Gene Name	FCGR3B
Gene Alias	CD16, CD16b, FCG3, FCGR3
Gene Description	Fc fragment of IgG, low affinity IIIb, receptor (CD16b)
Omim ID	610665
Gene Ontology	Hyperlink
Gene Summary	low affinity IIIb
Other Designations	Fc fragment of IgG, low affinity IIIb, receptor for (CD16)|Fc-gamma receptor IIIb (CD 16)|low affinity immunoglobulin gamma Fc region receptor III-B

Pathway

- Natural killer cell mediated cytotoxicity
- Systemic lupus erythematosus

Disease

- Acute Disease
- Addison Disease
- Aggressive Periodontitis
- Agranulocytosis
- Alveolar Bone Loss
- Anemia
- Anti-Glomerular Basement Membrane Disease
- Arthritis
- Atherosclerosis
- Autoimmune Diseases
- Behcet Syndrome
- Candidiasis

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- Cardiovascular Diseases
- Cerebrovascular Accident
- Chronic Disease
- Chronic Periodontitis
- Coronary Artery Disease
- Cryoglobulinemia
- Cryptococcosis
- Dental Plaque
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Edema
- Epilepsy
- Genetic Predisposition to Disease
- Glomerulonephritis
- Guillain-Barre Syndrome
- Hepatitis C
- Infection
- Inflammation
- Leukemia
- Lichen Planus
- Lupus Erythematosus
- Lupus Nephritis
- Lymphoma
- Malaria
- Meningococcal Infections

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- Mucocutaneous Lymph Node Syndrome
- Multiple Myeloma
- Multiple Sclerosis
- Myasthenia Gravis
- Nephritis
- Periodontal Attachment Loss
- Periodontal Diseases
- Periodontal Pocket
- Periodontitis
- Pneumonia
- Poliomyelitis
- Postpoliomyelitis Syndrome
- Purpura
- Recurrence
- Respiratory Tract Infections
- Rheumatic Fever
- Seizures
- Sepsis
- Sickle Cell Trait
- Thymoma
- Tobacco Use Disorder
- Urinary Tract Infections
- Vasculitis
- Wegener Granulomatosis

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