

Recombinant Human Fc-gamma RIII alpha/FCGR3A/CD16a Protein

RPCB0224

Protein Information

Size:	10 µg , 20 µg , 50 µg , 100 µg	Tag:	C-His
Reactivity:	Human	Expressed Host:	HEK293 cells
Calculated MW:	22.68 kDa	Observed MW:	45-52 kDa

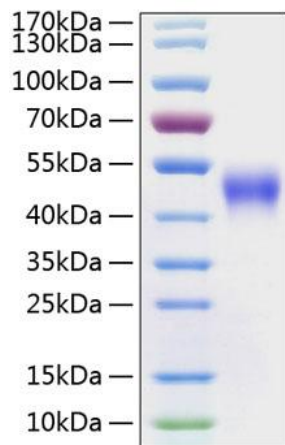
Background

This protein is a receptor for the Fc portion of immunoglobulin G, and it is involved in the removal of antigen-antibody complexes from the circulation, as well as other antibody-dependent responses. The protein is expressed on natural killer (NK) cells as an integral membrane glycoprotein anchored through a transmembrane peptide, whereas FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. Mutations in this gene have been linked to susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia.

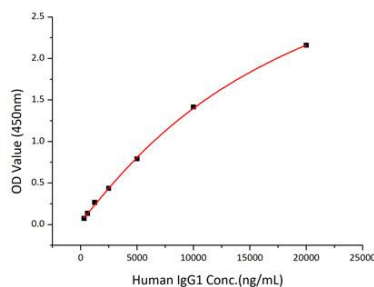
Properties

Synonyms:	CD16, CD16A, FCG3, FCGR3, FCGR3A, FCR-10, FCRIII, FCRIIIA, IGFR3, IMD20, FCGR3A, CD16, CD16A, FCG3, FCGR3, FCGR3A, FCR-10, FCRIII, FCRIIIA, IGFR3, IMD20, Fc fragment of IgG receptor IIIa
Gene ID:	2214
Endotoxin:	< 0.1 EU/µg of the protein by LAL method.
Description:	High quality, high purity and low endotoxin recombinant Recombinant Human Fc-gamma RIII alpha/FCGR3A/CD16a Protein (RPCB0224), tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.
Purity:	≥ 95 % as determined by SDS-PAGE.
Storage:	Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

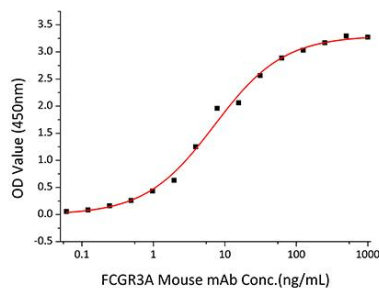
Validation Data



Recombinant Human Fc-gamma RIII alpha/FCGR3A/CD16a Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Recombinant Human CD16A at 5 µg/mL (100 µL/well) can bind Recombinant IgG1 with a linear range of 10-40 µg/mL.



Immobilized Human FCGR3A at 1 µg/mL (100 µL/well) can bind FCGR3A Mouse mAb with a linear range of 0.06-7.1 ng/mL.