



Recombinant Protein Technical Manual

Recombinant Mouse CD16/FCGR3 Protein (His Tag)(Active)
RPES0226

Product Data:

Product SKU: RPES0226

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: P08508

Protein Information:

Molecular Mass: 22.0 kDa

AP Molecular Mass: 35-40 kDa

Tag: C-6His

Bio-activity: Immobilized Mouse IgG1 Fc(Cat: PKSM041044) at 10µg/ml(100 µl/well) can bind Mouse CD16-His. The ED50 of Mouse CD16-His is 39.1ug/mL.

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to it for detailed information.

Application: Functional ELISA

Synonyms: Low affinity immunoglobulin gamma Fc region receptor III; Fcgr3; Fc gamma Receptor III; CD-antigen 16; CD16; FcRIII; IgG Fc receptor III

Immunogen Information:

Sequence: Ala31-Thr215

Background:

Low affinity immunoglobulin gamma Fc region receptor III (Fc gamma RIII/CD16) is a member of the Ig superfamily. Based on close relationships in their extracellular domains, the Fc gamma Rs have been divided into three classes composing of Fc gamma RI (CD64), Fc gamma RII (CD32), and Fc gamma RIII (CD16). Each group may be encoded by multiple genes and exist in different isoforms depending on species and cell type. Mouse CD16 is a type I transmembrane protein having two extracellular Ig-like domains consisting of immunoglobulin domain, repeat, signa and transmembrane, transmembrane helix. It is expressed on a variety of myeloid and lymphoid cells and associates with Fc R gamma to deliver an activating signal upon ligand binding. Fcgr3 is IgG binding and activation or inhibition of immune responses such as antibody-dependent cellular cytotoxicity, phagocytosis, cell surface receptor signaling pathway and positive regulation of type I/IIa/III hypersensitivity.