



Recombinant Protein Technical Manual

Recombinant Mouse CD16-2/FCGR4 Protein (His Tag)(Active)
RPES0592

Product Data:

Product SKU: RPES0592

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: NP_653142.2

Protein Information:

Molecular Mass: 21.9 kDa

AP Molecular Mass: 28-35 kDa

Tag: C-6His

Bio-activity: Immobilized Human IgG1-Fc(Cat: PKSH032558) at 2µg/ml(100 µl/well) can bind Mouse FcγR4-His.

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 IV;FcγR4;4833442P21Rik;CD16-2;FcγR4;FcγR3a;FcγR4;FcγR3

Immunogen Information:

Sequence: Gly21-Gln203

Background:

Fcgr4, also known as CD16-2, is one of the receptors for Fc region of IgG which involve in immune responses. Fcgr4 mainly functions in cellular response to lipopolysaccharide, NK T cell proliferation, regulation of sensory perception of pain, wound healing etc. Three groups are included for Fc γ receptors (FcR), and they are Fc γ RI (CD64), Fc γ RII (CD32), and Fc γ RIII (CD16). Among these, CD64 possess high affinity even for monomeric IgG, while CD32 and CD16 display a relative lower affinity for IgG. Genes encodes these receptors are diverse differing by species and cell types. The aggregation of FcR having immunoreceptor tyrosine-based activation motifs (ITAMs) activates sequentially src family tyrosine kinases and syk family tyrosine kinases that connect transduced signals to common activation pathways shared with other receptors. FcR with ITAMs elicit cell activation, endocytosis, and phagocytosis. Fcgr4 belongs to Fc γ RIII (CD16) group.