



Recombinant Protein Technical Manual

**Recombinant Mouse CD16-2/FCGR4 Protein
(His&AVI Tag), Biotinylated(Active)**
RPES5101

Product Data:

Product SKU: RPES5101

Size: 20µg

Species: Mouse

Expression host: HEK293 Cells

Uniprot: NP_653142.2

Protein Information:

Molecular Mass: 24.2 kDa

AP Molecular Mass:

Tag: C-His-AVI, Biotinylated

Bio-activity: 1. Measured by its ability to bind human IgG1 (Fc) in a functional ELISA. 2. Labeling ratio of biotin to protein: 0.6

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg of the protein 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 sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: 4833442P21Rik Protein, Mouse; CD16-2 Protein, Mouse; Fcγ₄ Protein, Mouse; Fcγ₄R Protein, Mouse; Fcγ₄ Protein, Mouse; Fcγ₄R Protein, Mouse; Fcγ₄ Protein, Mouse

Immunogen Information:

Sequence: Met 1-Gln 203

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.