

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

Catalog Number:PKSM040893



Note: Centrifuge before opening to ensure complete recovery of vial contents.

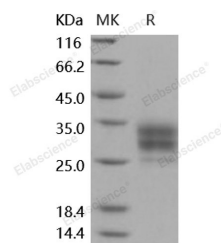
Description

Synonyms	Low Affinity Immunoglobulin Gamma Fc Region Receptor IV;FcγR4;4833442P21Rik;CD16-2;FcγRIV;FcγR3a;FcγRIV;FcγR13
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Met 1-Gln 203
Accession	NP_653142.2
Calculated Molecular Weight	22.4 kDa
Observed molecular weight	25-35 kDa
Tag	C-His
Bioactivity	Measured by its binding ability in a functional ELISA. Immobilized mouse FCGR4 at 10 µg/ml (100 µl/well) can bind recombinant human IgG1 (Fc). The EC50 of human IgG1 (Fc) is 0.11-0.25 µg/ml.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, 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 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

FcγR4, also known as CD16-2, is one of the receptors for Fc region of IgG which involve in immune responses. FcγR4 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

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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.

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