Recombinant Mouse CD47 protein, Mouse IgG2a Fc-tagged, low endotoxin

Cat. No. CD47-384M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse CD47 protein (Gln19-Lys140)(low endotoxin), fused to Mouse IgG2a Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Mouse
Source	HEK293
ProteinLength	122
Description	Leukocyte surface antigen CD47 is also known as Antigenic surface determinant protein OA3, Integrin-associated protein (IAP) and Protein MER6. CD47 contains 1 Ig-like V-type (immunoglobulin-like) domain. CD47 is very broadly distributed on normal adult tissues. CD47 has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins and plays an important role in memory formation and synaptic plasticity in the hippocampus by similarity. CD47 is the receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. CD47 Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation.
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 40.7 kDa. The protein migrates as 55-85 kDa

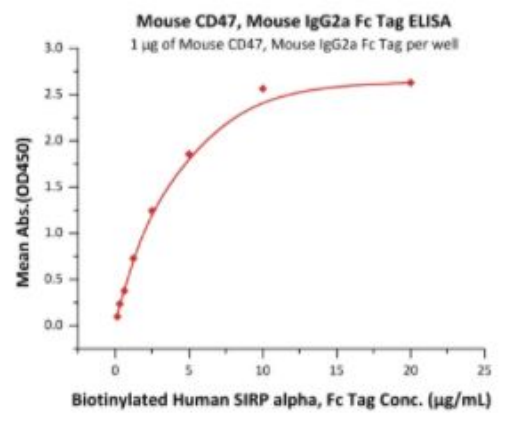
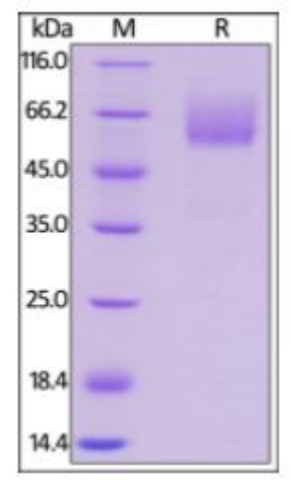
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	under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.1 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CD47
Official Symbol	CD47
Synonyms	CD47; CD47 antigen (Rh-related antigen, integrin-associated signal transducer); leukocyte surface antigen CD47; Rh-related antigen; integrin-associated protein; IAP; Itgp; AA407862; AI848868; AW108519; 9130415E20Rik; B430305P08Rik
Gene ID	16423
mRNA Refseq	NM_010581
Protein Refseq	NP_034711

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UniProt ID	Q61735
Bioactivity-ELISA of CD47-384M	 Immobilized Mouse CD47, Mouse IgG2a Fc Tag, low endotoxin at 10 μg/mL (100 μL/well) can bind Biotinylated Human SIRP alpha, Fc Tag with a linear range of 0.16-5 μg/mL (QC tested).
SDS-PAGE of CD47-384M	 Mouse CD47, Mouse IgG2a Fc Tag, low endotoxin on SDS-PAGE under reducing

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(R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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