Recombinant Rat Cd47 Protein, hFc-tagged, FITC conjugated

Cat. No. Cd47-7480RF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FITC conjugated recombinant Rat Cd47 (Gln19-Lys140) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Rat
Source	HEK293
ProteinLength	Gln19-Lys140
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
Molecular Mass	The protein has a calculated MW of 40.4 kDa. As a result of glycosylation, the protein migrates as 50-66 kDa under reducing (R) condition, and 100-130 kDa under non-reducing (NR) condition (SDS-PAGE).

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N-terminal Sequence Analysis	Gln 19
Endotoxin	< 1.0 EU/ μg by the LAL method.
Purity	> 95 % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with FITC via amines Excitation source: 488 nm spectral line, argon-ion laser Excitation Wavelength: 488 nm Emission Wavelength: 535 nm
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 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from 0.22 μm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Conjugation	FITC

GENE INFORMATION

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Gene Name	Cd47
Official Symbol	Cd47
Synonyms	Itgp
Gene ID	113934
mRNA Refseq	NM_019195
Protein Refseq	NP_062068
UniProt ID	P97829

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