

Active Recombinant Monkey CD47 Protein, His-tagged

Cat. No. CD47-11045M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cynomolgus/Rhesus macaque CD47, His Tag is expressed from human 293 cells (HEK293). It contains AA Gln 19 - Glu 141 (Accession # F7A802-1). In the region Gln 19 - Glu 141, the AA sequence of Cynomolgus and Rhesus macaque CD47 are homologous. This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Gln 19
Species	Monkey
Source	HEK293
ProteinLength	19-141 aa
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 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

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Bio-activity	Immobilized Human SIRP alpha, Fc Tag (HPLC-verified) at 5 µg/mL (100 µL/well) can bind Cynomolgus/Rhesus macaque CD47, His Tag with a linear range of 4-63 ng/mL.
Molecular Mass	The protein has a calculated MW of 15.8 kDa. The protein migrates as 30-50 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.
Storage	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. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
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.

GENE INFORMATION

Gene Name	CD47 CD47 molecule [<i>Macaca mulatta</i>]
Official Symbol	CD47
Synonyms	CD47; CD47 molecule; leukocyte surface antigen CD47;
Gene ID	704980

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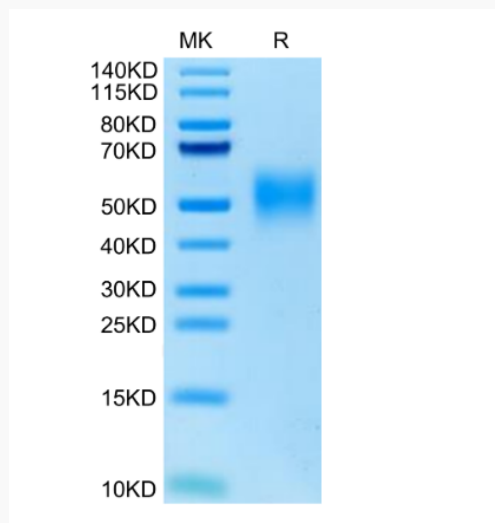
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mRNA Refseq XM_015129736

Protein Refseq XP_014985222

UniProt ID F7A802

SDS-PAGE.



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