

Recombinant Mouse Cd47 protein, Fc-tagged

Cat. No. CD47-3095M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cd47(Gln19-Pro158) fused with Fc tag at C-terminal was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	Gln19-Pro158
Description	CD47 is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. The protein is also a receptor for the C-terminal cell-binding domain of thrombospondin, and it may play a role in membrane transport and signal transduction. This protein has broad tissue distribution, and is reduced in expression on Rh erythrocytes.
Form	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.
AA Sequence	QLLFSNVNSIEFTSCNETVVIPCIVRNVEAQSTEEMFVKWKLNKS YIFIYDGNKNSTTT DQNFTS AKISVSDLINGIASLKMDKRDAMVGNYTCEVTELSREGKTVIELKNRTAFNT DQGSACS YEEEEKG GCKLVSWFSPVDDIEGRMDEPKSCDKTHTCPPCPAPELLGGP SVFLFPPKPKDTLMISRTPEVTC VVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREE QYNSTYRVVSVLTVLHQDWLNGKE
Endotoxin	Less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.

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Purity	Greater than 95% as determined by reducing SDS-PAGE.
Quality Control Test	Has a calculated MW of 40.5 kDa. the reducing (R) protein migrates as 50-66 kDa, and the non-reducing (NR) protein migrates as 100-130 kDa in SDS-PAGE.
Storage	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	Cd47 CD47 antigen (Rh-related antigen, integrin-associated signal transducer) [Mus musculus]
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
Chromosome Location	16; 16 B5
Pathway	Cell surface interactions at the vascular wall, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction, conserved biosystem; Hemostasis, organism-specific biosystem; Signal regulatory protein (SIRP) family interactions, organism-specific biosystem;
Function	protein binding; thrombospondin receptor activity;

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