

## Recombinant Mouse Cd47 protein, Fc-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Cd47(Gln19-Pro158) fused with Fc tag at C-terminal was expressed in HEK293.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	Gln19-Pro158
<b>Description</b>	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.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.
<b>AA Sequence</b>	QLLFSNVNSIEFTSCNETVVIPCIVRNVEAQSTEEMFVKWKLNKSIFYDGNKNSTTT DQNFTS AKISVSDLINGIASLKMDKRDAMVGNVTCEVTELSREGKTVIELKNRTAFNT DQGSACS YEEEEKG GCKLVSWFSPVDDIEGRMDEPKSCDKTHTCPPCPAPELLGGP SVFLFPPKPKDTLMISRTPEVTC VVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREE QYNSTYRVVSVLTVLHQDWLNGKE
<b>Endotoxin</b>	Less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.

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<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE.
<b>Quality Control Test</b>	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.
<b>Storage</b>	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.
<b>Reconstitution</b>	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 ddH <sub>2</sub> O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Cd47 CD47 antigen (Rh-related antigen, integrin-associated signal transducer) [ Mus musculus ]</a>
<b>Official Symbol</b>	<a href="#">Cd47</a>
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">16423</a>
<b>mRNA Refseq</b>	<a href="#">NM_010581</a>
<b>Protein Refseq</b>	<a href="#">NP_034711</a>

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<b>UniProt ID</b>	Q61735
<b>Chromosome Location</b>	16; 16 B5
<b>Pathway</b>	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;
<b>Function</b>	protein binding; thrombospondin receptor activity;

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