CD47 Blocking Peptide

PRODUCT OVERVIEW

Product Name	CD47, Blocking Peptide
Full Product Name	CD47 Blocking Peptide
Product Gene Name	CD47 blocking peptide
Product Synonym Names	Antigenic Blocking Peptide Leukocyte surface antigen CD47 Antibody; Antigen identified by monoclonal antibody 1D8 antibody; Antigenic surface determinant protein OA3 antibody; CD47 antigen (Rh-related antigen, integrin-associated signal transducer) antibody; CD47 glycoprotein antibody; CD47 molecule antibody; IAP antibody; Integrin Associated Protein antibody; Integrin associated signal transducer antibody; Leukocyte surface antigen CD47 antibody; MER6 antibody; OA3 antibody; Protein MER6 antibody; Rh related antigen antibody
Preparation and Storage	Store at -20 degree C for long term storage.
Molecular Weight	33,845 Da
Molecular Function	Thrombospondin receptor activity; Cell adhesion
Subcellular Location	Cell Membrane; Membrane
Applications Tested/Suitable for CD47 blocking peptide	Immunodepletion, Immunocompetition
Related Product Information for CD47 blocking peptide	Overview: Has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. Plays an important role in memory formation and synaptic plasticity in the hippocampus. Receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation. May play a role in membrane transport and/or integrin dependent signal transduction. May prevent premature elimination of red blood cells. May be involved in membrane permeability changes induced following virus infection. Peptide Description: Synthetic peptide taken within amino acid region 100-150 on human CD47 protein. Structure: Contains 1 Ig-like V-type (immunoglobulin-like) domain. Expression: Very broadly distributed on normal adult tissues, as well as ovarian tumors, being especially abundant in some epithelia and the brain.
Other Notes	Small volumes of CD47 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD47 purchase	MBS5400592 is a blocking peptide targeting CD47.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD47. It may not necessarily be applicable to this product.

NCBI GI #	4502673
NCBI GeneID	961
NCBI Accession #	NP_001768.1
UniProt Primary Accession #	Q08722
UniProt Secondary Accession #	Q53Y71; Q96A60; A8K198; D3DN59

UniProt Related Accession #	Q08722
GenBank Nucleotide #	NM_001777.3
NCBI Official Full Name	leukocyte surface antigen CD47 isoform 1
NCBI Official Synonym Full Names	CD47 molecule
NCBI Official Symbol	CD47
NCBI Official Synonym Symbols	IAP; OA3; MER6
UniProt Protein Name	Leukocyte surface antigen CD47
UniProt Synonym Protein Names	Antigenic surface determinant protein OA3; Integrin-associated protein; IAP; Protein MER6; CD_antigen: CD47
Protein Family	Leukocyte surface antigen
UniProt Gene Name	CD47
UniProt Synonym Gene Names	MER6; IAP
NCBI Protein Information	leukocyte surface antigen CD47
NCBI Summary for CD47	This gene encodes a membrane protein, which is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. The encoded 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 gene has broad tissue distribution, and is reduced in expression on Rh erythrocytes. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2010]
UniProt Comments for CD47	Has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. Plays an important role in memory formation and synaptic plasticity in the hippocampus (). Receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation. May play a role in membrane transport and/or integrin dependent signal transduction. May prevent premature elimination of red blood cells. May be involved in membrane permeability changes induced following virus infection.
Research Articles on CD47	**1.** High CD47 expression is associated with the increase in the ability of surviving breast cancer cells to evade innate and adaptive immunity.
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