CD47 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD47, Polyclonal Antibody
Full Product Name	CD47 Rabbit pAb
Product Gene Name	anti-CD47 antibody
Product Synonym Names	CD47; IAP; Integrin Associated Protein; MER6; OA3; Protein MER6; Antigen identified by monoclonal antibody 1D8
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Affinity Chromatography
Preparation and Storage	Store at 4 degree C short term. Store at -20 degree C long term. Avoid freeze/thaw cycle.
Molecular Weight	55kDa
OMIM	601028
3D Structure	ModBase 3D Structure for Q08722
Immunogen	A synthesized peptide derived from human CD47
Cellular Localization	Cell Membrane, Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD47 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS)
Application Notes for anti-CD47 antibody	WB: 1:1000-1:2000 ICC/IF: 1:50-1:200 FC/FACS: 1:50
Related Product Information for anti-CD47 antibody	CD47 is an integral membrane protein that plays a role in the regulation of cation fluxes across cell membranes. Specifically, CD47 is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to the extracellular matrix. It is also a receptor for the C-terminal cell binding domain of thrombospondin (SIRP). CD47 is absent from Rh-null erythrocytes, but does play a role in cell adhesion in non-erythroid cells and may prevent premature elimination of erythrocytes.
Other Notes	Small volumes of anti-CD47 antibody 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	MBS8542335 is an antibody targeting CD47. Also known as CD47 Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	1171879

NCBI GeneID	961
NCBI Accession #	Q08722.1
UniProt Primary Accession #	Q08722
UniProt Related Accession #	Q08722
NCBI Official Full Name	Leukocyte surface antigen CD47
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
UniProt Entry Name	CD47_HUMAN
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	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. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Membrane protein, multi-pass; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 3q13.1-q13.2 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: protein binding Biological Process: integrin-mediated signaling pathway; extracellular matrix organization and biogenesis; response to bacterium; positive regulation of phagocytosis; positive regulation of cell proliferation; positive regulation of cell-cell adhesion; positive regulation of T cell activation; opsonization; blood coagulation; cell adhesion; leukocyte migration; positive regulation of inflammatory response
Research Articles on CD47	**1.** CD47 and PD-L1 serve as critical innate and adaptive checkpoints, respectively, both of them are critical to the immune system. Therefore, we believe this dual-targeting strategy will provide insight into tumor immunotherapy for better tumor control.
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