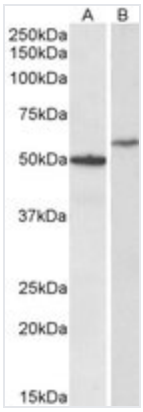
CD47 Antibody – Goat Polyclonal

PRODUCT OVERVIEW

Product Name	CD47, Polyclonal Antibody
Full Product Name	Goat anti-CD47 Antibody
Product Gene Name	anti-CD47 antibody
Product Synonym Names	CD47; CD47 molecule; IAP; MER6; OA3; CD47 antigen (Rh-related antigen, integrin-associated signal transducer); CD47 glycoprotein; Rh-related antigen; antigen identified by monoclonal antibody 1D8; antigenic surface determinant protein OA3; integrin associ; CD47 antibody; CD47 molecule antibody; IAP antibody; MER6 antibody; OA3 antibody; CD47 antigen (Rh-related antigen; integrin-associated signal transducer) antibody; CD47 glycoprotein antibody; Rh-related antigen antibody; antigen identified by monoclonal antibody 1D8 antibody; antigenic surface determinant protein OA3 antibody; integrin associ antibody
Immunogen Sequence	SNQKTIQPPR K
Clonality	Polyclonal
Host	Goat
Species Reactivity	Tested: Human; Expected from sequence similarity: Human, Dog
Form/Format	Supplied at 0.5 mg/ml in Tris saline, 0. 02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Purity/Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Concentration	100ug specific antibody in 200ul (lot specific)
Preparation and Storage	Aliquot and store at -20 degree C. Minimize freezing and thawing.
Antibody/Peptide Pairs	CD47 peptide (MBS428386) is used for blocking the activity of CD47 antibody (MBS423209)
Molecular Weight	33,845 Da
OMIM	601028
Immunogen	Peptide with sequence C-SNQKTIQPPRK, from the internal region (near C terminus) of the protein sequence according to NP_001768.1; NP_942088.1.
Epitope	Internal region (near C Terminus)
Note	This antibody is expected to recognize both reported isoforms (NP_001768.1; NP_942088.1).
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Applications Tested/Suitable for anti-CD47 antibody	Peptide ELISA (EIA), Western Blot (WB)
Application Notes for anti-CD47 antibody	Peptide ELISA: Antibody detection limit dilution 1: 128000. Western Blot: Approx 50kDa band observed in Human Hippocampus lysates and 60kDa in lysates of cell lines HeLa and Jurkat (calculated MW of 35.2kDa according to NP_001768.1). The observed molecular weights correspond to glycosylated forms. Recommended concentration: 0.3-1ug/ml.
Related Product Information for anti-CD47 antibody	MBS423209 is an antibody targeting CD47. Also known as Goat anti-CD47 Antibody. Reactive in Tested: Human; Expected from sequence similarity: Human, Dog. Host: Goat.
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.



Western Blot (WB) of anti-CD47 antibody
(0.3ug/ml) staining of Human Hippocampus (A) and HeLa (B) lysates (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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
NCBI Related Accession #	NP_942088.1
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
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, multi-pass; Membrane protein, integral; 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: cell adhesion; extracellular matrix organization and biogenesis; integrin-mediated signaling pathway; leukocyte migration; opsonization; positive regulation of cell proliferation; positive regulation of cell-cell adhesion; positive regulation of inflammatory response; positive regulation of phagocytosis; positive regulation of T cell activation; response to bacterium
Research Articles on CD47	**1.** study demonstrates that antigen-presenting cells(CD47+) in coculture with human macrophages show a CD47 concentration-dependent inhibition of phagocytosis
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