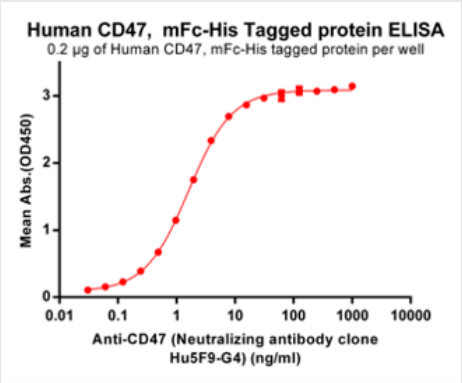
CD47 Antibody – Human Monoclonal

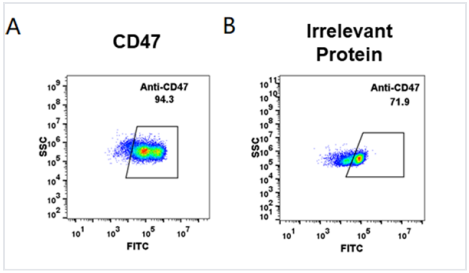
PRODUCT OVERVIEW

Product Name	CD47, Monoclonal Antibody
Full Product Name	Anti-CD47 Antibody (magrolimab biosimilar)(Hu5F9-G4)
Product Gene Name	anti-CD47 antibody
Product Synonym Names	Hu5F9-G4; CD47; MER6; IAP
Clonality	Monoclonal
Isotype	Human IgG4
Host	Human
Species Reactivity	Human
Form/Format	Purified. Lyophilized from PBS, pH7.4; 6% Trehalose. Reconstitute with Sterile water. Not Sterile
Purity/Purification	Purified from cell culture supernatant by affinity chromatography.
Concentration	0.5-1.0mg/ml (Lot dependent) (lot specific)
Preparation and Storage	Store at -20 degree C (Avoid repeated freezing and thawing).
Molecular Weight	323
OMIM	601028
3D Structure	ModBase 3D Structure for Q08722
Product Categories/Family for anti-CD47 antibody	recmAb; Recombinant Biosimilar Antibodies
Applications Tested/Suitable for anti-CD47 antibody	ELISA (EIA), Flow Cytometry (FC/FACS)
Application Notes for anti-CD47 antibody	ELISA: 1:5000-10000 FC/FACS: 1:100
Related Product Information for anti-CD47 antibody	MBS669670 is an antibody targeting CD47. Also known as Anti-CD47 Antibody (magrolimab biosimilar)(Hu5F9-G4). Reactive in Human. Host: Human.
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.



ELISA (EIA) of anti-CD47 antibody

Figure 1. ELISA plate pre-coated by 2ug/mL (100 ul/well) Human CD47, mFc-His tagged protein can bind Anti-CD47 (Neutralizing antibody clone Hu5F9-G4) in a linear range of 0.061-1.606ng/ml.



Testing Data of anti-CD47 antibody

Figure 2. HEK293 cell line transfected with irrelevant protein (B) and human CD47(A) were surface stained with anti-CD47 neutralizing antibody 1 ug/ml (magrolimab) followed by Alexa 488-conjugated anti-human IgG secondary antibody.

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 Secondary Accession #	Q53Y71; Q96A60; A8K198; D3DN59
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; CD47 glycoprotein; Rh-related antigen; integrin associated protein; integrin-associated protein; integrin-associated signal transducer; antigenic surface determinant protein OA3; antigen identified by monoclonal antibody 1D
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 associates with and regulates VEGFR2 in T cells. CD47 signaling modulates the ability of VEGF to regulate proliferation and TCR signaling, and autocrine production of vascular endothelial growth factor by T cells contributes to this regulation.
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