CD59a Antibody – Rabbit Monoclonal

PRODUCT OVERVIEW

Product Name	CD59a, Monoclonal Antibody
Full Product Name	Recombinant Anti-CD59a Antibody, Rabbit Monoclonal
Product Gene Name	anti-CD59a antibody
Product Synonym Names	CD59a/Protectin Antibody, Rabbit MAb; CD59a antigen; Anti-AA987121 Antibody; Anti-Cd59 Antibody; Anti-protectin Antibody; Anti-RP24-297H17.1 Antibody
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	045
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A
Specificity	Mouse CD59a/Protectin
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	40,347 Da
Chromosome Location	Chromosome: 4; NC_000070.6 (43447724..43455458, complement). Location: 4 B1; 4 23.04 cM
3D Structure	ModBase 3D Structure for P21855
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Mouse CD59a/Protectin Protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse CD59a/Protectin (rM CD59a/Protectin).
Applications Tested/Suitable for anti-CD59a antibody	ELISA (EIA)
Application Notes for anti-CD59a antibody	ELISA: 1:5000-1:10,000
Related Product Information for anti-CD59a antibody	Protectin, a complement regulatory protein, also known as CD59, or MIRL (membrane inhibitor of reactive lysis) is a small protein that inhibits the complement membrane attack complex by binding C5b678 and preventing C9 from binding and polymerizing. The amino-terminal 25 amino acids represented a typical signal peptide sequence and the carboxy-terminal hydrophobic amino acids were characteristic for phosphatidylinositol-anchored proteins. It was found that the CD59/Protectin antigen is a small protein sometimes associated with larger components (45 and 80 kD) in urine. CD59/Protectin antigen was released from the surface of transfected COS cells by phosphatidylinositol-specific phospholipase C, demonstrating that it is attached to the cell membrane by means of a glycolipid anchor; it is therefore likely to be absent from the surface of affected erythrocytes in the disease paroxysmal nocturnal hemoglobinuria.

Product References and Citations for anti-CD59a antibody	Huang Y, et al. (2006) Defining the CD59-C9 binding interaction. J Biol Chem. 281 (37): 27398-404.Sawada R, et al. (1990) Isolation and expression of the full-length cDNA encoding CD59 antigen of human lymphocytes. DNA Cell Biol. 9(3): 213-20.Philbrick WM, et al. (1990) The CD59 antigen is a structural homologue of murine Ly-6 antigens but lacks interferon inducibility. Eur J Immunol. 20(1): 87-92.
Other Notes	Small volumes of anti-CD59a 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 CD59a purchase	MBS8111992 is an antibody targeting CD59a. Also known as Recombinant Anti-CD59a Antibody, Rabbit Monoclonal. Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD59a. It may not necessarily be applicable to this product.

NCBI GI #	160333097
NCBI GeneID	12517
NCBI Accession #	NP_031680.2
UniProt Primary Accession #	P21855
UniProt Secondary Accession #	Q64225; A2AIN6
UniProt Related Accession #	P21855
GenBank Nucleotide #	NM_007654.2
NCBI Official Full Name	B-cell differentiation antigen CD72 isoform 2
NCBI Official Synonym Full Names	CD72 antigen
NCBI Official Symbol	Cd72
NCBI Official Synonym Symbols	CD72c; Ly-19; Ly-32; Lyb-2; Ly-m19
UniProt Protein Name	B-cell differentiation antigen CD72
UniProt Synonym Protein Names	Lyb-2; Lymphocyte antigen 32
Protein Family	CD59A glycoprotein
UniProt Gene Name	Cd72
UniProt Synonym Gene Names	Ly-32; Ly32; Lyb-2; Ly-32
UniProt Entry Name	CD72_MOUSE
NCBI Protein Information	B-cell differentiation antigen CD72; lymphocyte antigen 32
UniProt Comments for CD59a	Function: Plays a role in B-cell proliferation and differentiation. Subunit structure: Homodimer; disulfide-linked. Associates with CD5. Interacts (tyrosine phosphorylated) with PTPN6/SHP-1. Ref.4 Subcellular location: Membrane; Single-pass type II membrane protein. Tissue specificity: Pre-B-cells and B-cells but not terminally differentiated plasma cells. Post-translational modification: Phosphorylated upon engagement of the B-cell receptor, probably by LYN or SYK. Phosphorylation at Tyr-7 is important for interaction with PTPN6/SHP-1. Ref.4 Sequence similarities: Contains 1 C-type lectin domain.
Research Articles on CD59a	**1.** These results strongly suggest that the Cd72(c) is a crucial modifier gene that regulates Fas(lpr)-induced autoimmune disease due to its reduced activity of B cell signal regulation.

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