abcam

Product datasheet

APC Anti-CD59 antibody [MEM-43] ab36467

1 References 1 Image

Overview

Product name	APC Anti-CD59 antibody [MEM-43]
Description	APC Mouse monoclonal [MEM-43] to CD59
Host species	Mouse
Conjugation	APC. Ex: 645nm, Em: 660nm
Tested applications	**Suitable for:** Flow Cyt
Species reactivity	**Reacts with:** Human
Immunogen	Tissue, cells or virus corresponding to Human CD59. Human thymocytes and T lymphocytes
Epitope	Reacts with the well defined epitope (W40, R-53) on CD59 molecule
Positive control	Human whole blood
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.4 Preservative: 0.097% Sodium azide Constituent: 0.2% BSA High grade protease free BSA
Purity	IgG fraction
Purification notes	Purified antibody was conjugated with cross-linked APC under optimum conditions. The conjugate was purified by size-exclusion chromatography and adjusted for direct use.
Clonality	Monoclonal

Clone number	MEM-43
Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab36467 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		

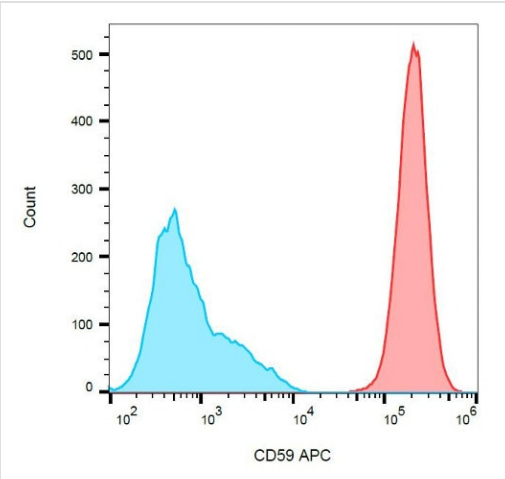
Application notes Flow Cyt: use 20µl reagent/100µl whole blood or 10^6 cells in a suspension.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

Function	Potent inhibitor of the complement membrane attack complex (MAC) action. Acts by binding to the C8 and/or C9 complements of the assembling MAC, thereby preventing incorporation of the multiple copies of C9 required for complete formation of the osmolytic pore. This inhibitor appears to be species-specific. Involved in signal transduction for T-cell activation complexed to a protein tyrosine kinase. The soluble form from urine retains its specific complement binding activity, but exhibits greatly reduced ability to inhibit MAC assembly on cell membranes.
Involvement in disease	Defects in CD59 are the cause of CD59 deficiency (CD59D) [MIM:612300].
Sequence similarities	Contains 1 UPAR/Ly6 domain.
Post-translational modifications	N- and O-glycosylated. The N-glycosylation mainly consists of a family of biantennary complex-type structures with and without lactosamine extensions and outer arm fucose residues. Also significant amounts of triantennary complexes (22%). Variable sialylation also present in the Asn-43 oligosaccharide. The predominant O-glycans are mono-sialylated forms of the disaccharide, Gal-beta-1,3GalNAc, and their sites of attachment are probably on Thr-76 and Thr-77. The GPI-anchor of soluble urinary CD59 has no inositol-associated phospholipid, but is composed of seven different GPI-anchor variants of one or more monosaccharide units. Major variants contain sialic acid, mannose and glucosamine Sialic acid linked to an N-acetylhexosamine-galactose arm is present in two variants. Glycated. Glycation is found in diabetic subjects, but only at minimal levels in nondiabetic subjects. Glycated CD59 lacks MAC-inhibitory function and confers to vascular complications of diabetes.
Cellular localization	Cell membrane. Secreted. Soluble form found in a number of tissues.

Images



Flow Cytometry - APC Anti-CD59 antibody [MEM-43] (ab36467)

Flow Cytometry analysis of HL-60 (positive) and SP2 (negative) cells labeling CD59 with Anti-CD59 antibody [MEM-43] (Allophycocyanin) (ab36467).

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