

Product datasheet

Anti-CD59 antibody [MEM-43], prediluted (Alexa Fluor® 647) ab187769

1 Image

Overview

<b>Product name</b>	Anti-CD59 antibody [MEM-43], prediluted (Alexa Fluor® 647)
<b>Description</b>	Mouse monoclonal [MEM-43] to CD59, prediluted (Alexa Fluor® 647)
<b>Host species</b>	Mouse
<b>Conjugation</b>	Alexa Fluor® 647. Ex: 652nm, Em: 668nm
<b>Specificity</b>	ab187769 reacts with a well defined epitope (W40, R-53) on CD59.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Tissue, cells or virus corresponding to Human CD59. (Thymocytes and T lymphocytes).

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Store In the Dark.
<b>Storage buffer</b>	Preservative: 0.097% Sodium azide Constituents: 99% PBS, 0.2% BSA
<b>Purity</b>	Size exclusion
<b>Purification notes</b>	Purified antibody is conjugated with Alexa Fluor® 647 under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	MEM-43
<b>Isotype</b>	IgG2a

Applications

Our [Abpromise guarantee](#) covers the use of **ab187769** 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
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Flow Cyt

Use 4µl for 10<sup>6</sup> cells.  
(or 100 µl of whole blood).

[ab176104](#) - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

## 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

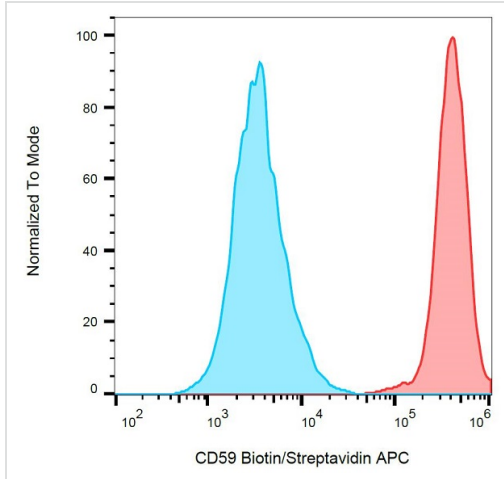
N- and O-glycosylated. The N-glycosylation mainly consists of a family of biantennary complex-type structures with and without lactosamine extensions and outer arm fucose residues. Also significant amounts of triantennary complexes (22%). Variable sialylation also present in the Asn-43 oligosaccharide. 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



Surface staining of HL-60 (positive) and SP2 (negative) cells with ab187769 1/25 dilution

Flow Cytometry - Anti-CD59 antibody [MEM-43], prediluted (Alexa Fluor® 647) (ab187769)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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