Datasheet for ABIN1981898

anti-CD15 antibody (PerCP)

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Overview

Quantity:	100 tests
Target:	CD15 (FUT4)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD15 antibody is conjugated to PerCP
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Human granulocytes
Clone:	MEM-158
Isotype:	IgM
Specificity:	The antibody MEM-158 reacts with CD15, a cell membrane molecule 3-fucosyl-N-acetylla ctosamine (3-FAL) strongly expressed on the surface of granulocytes, monocytes, macrophages, mast cells, it is also present on Langerhans cells and some myeloid precursors cells.
No Cross-Reactivity:	Cow, Pig, Sheep
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with activated Peridinin-Chlorophyll Protein (PerCP) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD15 (FUT4)
Alternative Name:	CD15 (FUT4 Products)
Background:	CD15 (Lewis x), also known as stage specific embryonic antigen-1 (SSEA-1) is a trisacharide determinant (3-fucosyl-N-acetyllactosamine) expressed on several glycolipids, glycoproteins and proteoglycans of various cell types, e.g. granulocytes, mast cells, monocytes, macrophages, cells of gastric mucosa, nervous system or various tumour cells. There are several structural relatives of Lewis x, e.g. sialyl-Lewis x or sulphated Lewis x. Cells with high surface expression of Le(x) antigen exhibit strong self-aggregation, based on calcium-dependent Le(x)-Le(x) interaction. This process is involved for example in embryo compaction or in autoaggregation of teratocarcinoma cells. Sialyl-Le(x) and its isomer sialyl-Le(a) are ligands of selectins. CD15 expression has been extensively used to confirm diagnosis of Hodgkin´s disease.,Lewis x Blood Group antigen, Le(x), SSEA-1, 3-fucosyl-N-acetyllactosamine

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with Peridinin-chlorophyll-protein complex (PerCP) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

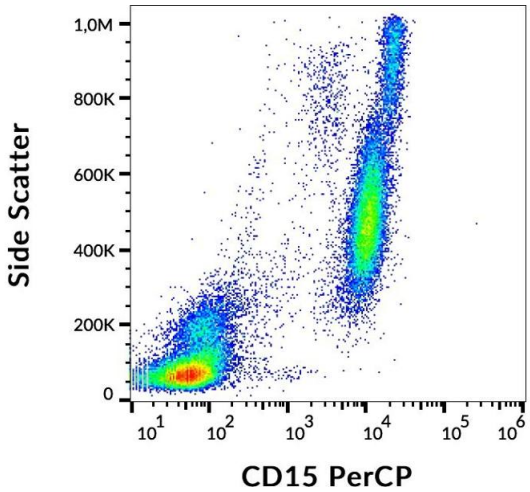
Handling

Buffer:	Stabilizing Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.

Handling

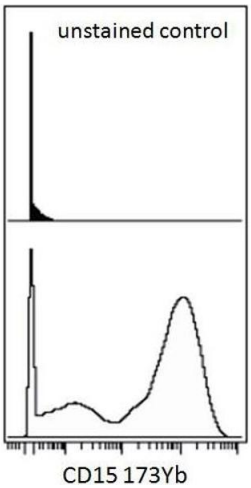
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Images



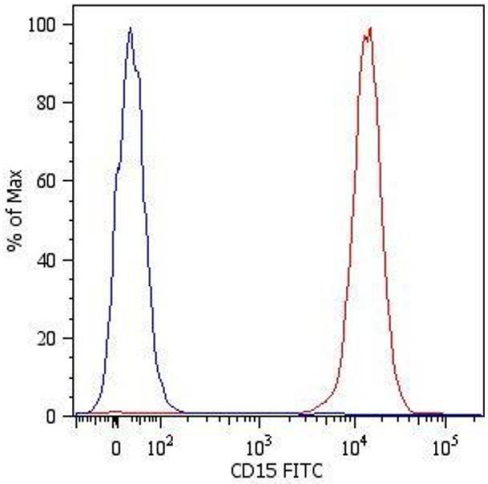
Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood cells with anti-human CD15 (MEM-158) PerCP.



Flow Cytometry

Image 2. Surface staining (mass cytometry) of human peripheral blood cells (after ammonium chloride red blood cell lysis) with anti-human CD15 173Yb. Gated on singlets.



Flow Cytometry

Image 3. Flow Cytometry analysis Surface staining (flow cytometry) of human peripheral blood cells with anti-human CD15 (MEM-158) FITC. Cells in the granulocyte gate were used for analysis.