abcam

ab95138

FITC Anti-CD44 antibody [MEM-263]

Anti-CD44 antibody [MEM-263] conjugated to FITC - suitable for flow cytometry, and reacts with human, pig samples. Clone [MEM-263] is a mouse monoclonal antibody cited in 21 publications.

Design your panel with our interactive flow cytometry panel builder. Click here.

Lab Essentials

Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	FITC
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	pH: 7.4 Preservative: 0.097% Sodium azide Constituents: PBS, 0.2% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing CD44 protein. The exact immunogen used to generate this antibody is proprietary information. Database link P16070
Clone number	MEM-263
Purification technique	Size-exclusion chromatography
Specificity	ab95138 reacts with extracellular (N-terminal) domain of standard CD44 a 80-95 kDa transmembrane glycoprotein(hyaladherin family) present on the most of cells and tissues (leukocytes, endothelial cells, mesenchymal cells, etc.); it is negative on platelets and hepatocytes.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	20 µL for 10^6 Cells
Notes	Use 20 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. ab91356 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Expected

Species	Pig
Dilution info	-
Notes	ab91356 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Species	Dog
Dilution info	-
Notes	ab91356 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target data

See full target information CD44

Function	Cell-surface receptor that plays a role in cell-cell interactions, cell adhesion and migration, helping them to sense and respond to changes in the tissue microenvironment (PubMed:16541107, PubMed:19703720, PubMed:22726066). Participates thereby in a wide variety of cellular functions including the activation, recirculation and homing of T-lymphocytes, hematopoiesis, inflammation and response to bacterial infection (PubMed:7528188). Engages, through its ectodomain, extracellular matrix components such as hyaluronan/HA, collagen, growth factors, cytokines or proteases and serves as a platform for signal transduction by assembling, via its cytoplasmic domain, protein complexes containing receptor kinases and membrane proteases (PubMed:18757307, PubMed:23589287). Such effectors include PKN2, the RhoGTPases RAC1 and RHOA, Rho-kinases and phospholipase C that coordinate signaling pathways promoting calcium mobilization and actin-mediated cytoskeleton reorganization essential for cell migration and adhesion (PubMed:15123640). Upon interaction with LGALS9 ligand, activates downstream signaling components including LCK, ERK and MAPK to promotes NK cell activation (PubMed:37006235). (Microbial infection) Promotes foot-and-mouth disease virus internalization via macropinocytosis.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

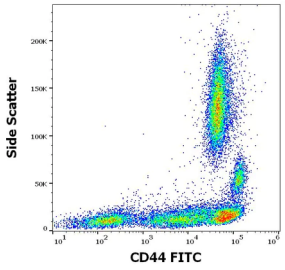
We do not recommend this combination. It is not covered by our product promise.

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In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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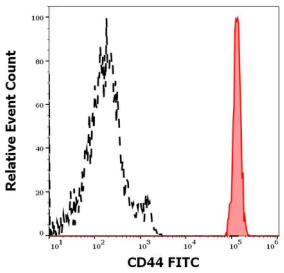
2 product images



Flow Cytometry - FITC Anti-CD44 antibody [MEM-263] (ab95138)

CD44 Flow Cytometry staining of Human peripheral blood using mouse Anti-CD44 antibody

Flow cytometry surface staining pattern of human peripheral whole blood stained using ab95138 (20 µl reagent / 100 µl of peripheral whole blood).



Flow Cytometry - FITC Anti-CD44 antibody [MEM-263] (ab95138)

CD44 Flow Cytometry staining of Human peripheral blood using mouse Anti-CD44 antibody

Separation of human monocytes (red-filled) from CD44 negative blood debris (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using ab95138 (10 µl reagent / 100 µl of peripheral whole blood).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.