abcam

ab25064

FITC Anti-CD44 antibody [KM201]

Anti-CD44 antibody [KM201] conjugated to FITC - suitable for flow cytometry, and reacts with mouse samples. Clone [KM201] is a rat monoclonal antibody cited in 14 publications.

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

Lab Essentials

Key facts

Isotype	IgG1
Host species	Rat
Conjugation	FITC
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	pH: 7.4 Preservative: 0.1% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing BMS2 cell line protein. The exact immunogen used to generate this antibody is proprietary information.
Clone number	KM201
Purification technique	Affinity purification
Specificity	Recognises all isoforms of CD44/pgp-1 (Mr 80-95 kDa)
Epitope	Reacts with an epitope very close to the hyaluronate binding domain on the CD44 molecule.
Light chain type	kappa
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Mouse
Dilution info	2 µg for 10^6 Cells
Notes	ab18404 - Rat 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

Storage information	Store in the dark

Notes

ab25064 can inhibit hyaluronate-dependent cell aggregation, prevent lympho-hemopoiesis in both Dexter and Whitlock-Witte Cultures, prevent the earliest intrathymic precursors from homing to the thymus, and costimulate the activation of freshly purified splenic CD4+ T cells.

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

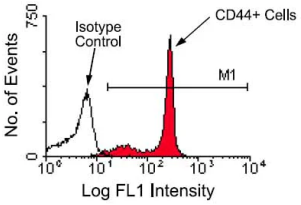
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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

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1 product image



Flow Cytometry - FITC Anti-CD44 antibody [KM201] (ab25064)

CD44 Flow Cytometry staining using rat Anti-CD44 antibody

ab25064 (at a concentration of 1 µg/10^6 cells) staining cells from BALB/c bone were stained by flow cytometry. Large cells were then gated and analyzed on a FACScan™ flow cytometer (BDIS, San Jose, CA).

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