

Product datasheet

FITC Anti-CD44 antibody [KM201] ab25064

[8 References](#) [1 Image](#)

Overview

Product name	FITC Anti-CD44 antibody [KM201]
Description	FITC Rat monoclonal [KM201] to CD44
Host species	Rat
Conjugation	FITC. Ex: 493nm, Em: 528nm
Specificity	Recognises all isoforms of CD44/pgp-1 (Mr 80-95 kDa)
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	Tissue, cells or virus corresponding to Mouse CD44. (C57BL/6 x DBA/2)F1 mouse bone marrow-derived stromal clone BMS2
Epitope	Reacts with an epitope very close to the hyaluronate binding domain on the CD44 molecule.
General 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.

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. Store In the Dark.
Storage buffer	pH: 7.4 Preservative: 0.1% Sodium azide Constituent: PBS
Purity	Affinity purified

Primary antibody 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.
Clonality	Monoclonal
Clone number	KM201
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab25064 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		Use 2µg for 10 ⁶ cells. ab18404 - Rat monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

Function Receptor for hyaluronic acid (HA). Mediates cell-cell and cell-matrix interactions through its affinity for HA, and possibly also through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Adhesion with HA plays an important role in cell migration, tumor growth and progression. Also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis. Altered expression or dysfunction causes numerous pathogenic phenotypes. Great protein heterogeneity due to numerous alternative splicing and post-translational modification events.

Tissue specificity Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma cells.

Sequence similarities Contains 1 Link domain.

Domain The lectin-like LINK domain is responsible for hyaluronan binding.

Post-translational modifications Proteolytically cleaved in the extracellular matrix by specific proteinases (possibly MMPs) in several cell lines and tumors.

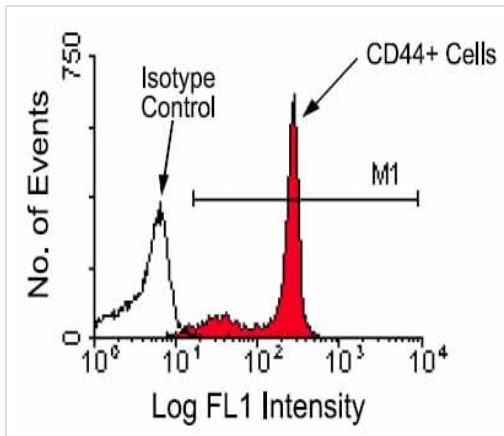
N-glycosylated.

O-glycosylated; contains more-or-less-sulfated chondroitin sulfate glycans, whose number may affect the accessibility of specific proteinases to their cleavage site(s).

Phosphorylated; activation of PKC results in the dephosphorylation of Ser-706 (constitutive phosphorylation site), and the phosphorylation of Ser-672.

Cellular localization Membrane.

Images



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

ab25064 (at a concentration of 1 $\mu\text{g}/10^6$ 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).

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