

## Product datasheet

### Anti-CD44 antibody [KM201] ab25340

★★★★★ [2 Abreviews](#) [28 References](#) [1 Image](#)

#### Overview

<b>Product name</b>	Anti-CD44 antibody [KM201]
<b>Description</b>	Rat monoclonal [KM201] to CD44
<b>Host species</b>	Rat
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, IHC-FoFr
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Tissue, cells or virus corresponding to Mouse CD44.
<b>Epitope</b>	ab25340 reacts with an epitope very close to the hyaluronate binding domain on the CD44 molecule.
<b>Positive control</b>	Flow Cyt: BALB/c mouse bone marrow cells.
<b>General notes</b>	<p>ab25340 can inhibit hyaluronate-dependent cell aggregation, prevent lympho-hemopoiesis in both Dexter and WhitlockWitte Cultures, prevent the earliest intrathymic precursors from homing to the thymus and costimulate the activation of freshly purified splenic CD4+ T cells.</p> <p>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.</p> <p>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&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 8.20 Constituent: 100% Borate buffered saline
<b>Purity</b>	Affinity purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	KM201

<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

## Applications

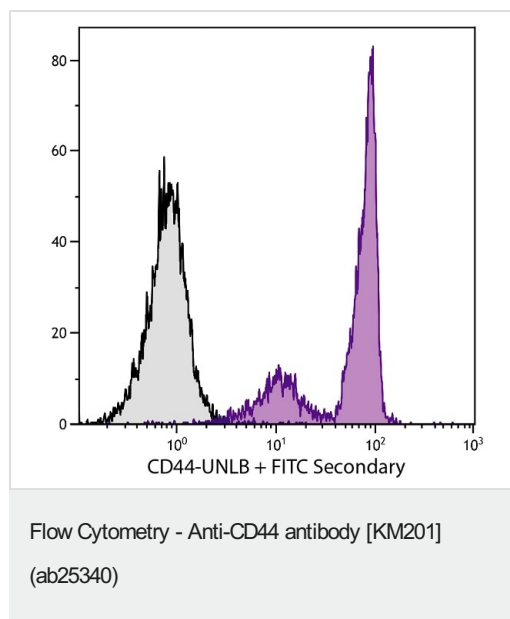
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab25340 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>Flow Cyt</b>		Use at an assay dependent concentration. <b>ab18407</b> - Rat monoclonal IgG1, is suitable for use as an isotype control with this antibody.
<b>IHC-FoFr</b>		Use at an assay dependent concentration.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma cells.
<b>Sequence similarities</b>	Contains 1 Link domain.
<b>Domain</b>	The lectin-like LINK domain is responsible for hyaluronan binding.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	Membrane.

## Images



Flow Cytometry analysis of BALB/c mouse bone marrow cells labeling CD44 with ab25340 at 1  $\mu\text{g}/10^6$  cells dilution (purple). A Mouse Anti-Rat IgG1-FITC was used as the secondary antibody. Grey - Isotype Control, Rat IgG1-UNLB, followed by Mouse Anti-Rat IgG1-FITC.

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

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