


### PerCP/Cy5.5® Anti-CD44 antibody [IM7] ab234445

[2 Images](#)

#### Overview

<b>Product name</b>	PerCP/Cy5.5® Anti-CD44 antibody [IM7]
<b>Description</b>	PerCP/Cy5.5® Rat monoclonal [IM7] to CD44
<b>Host species</b>	Rat
<b>Conjugation</b>	PerCP/Cy5.5®. Ex: 482nm, Em: 690nm
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse <b>Predicted to work with:</b> Horse, Cat, Dog, Human 
<b>Immunogen</b>	Tissue, cells or virus. (Dexamethasone-induced cells of the SJL mouse spontaneous myeloid leukemia M1).
<b>Positive control</b>	Flow Cyt: Mouse splenocytes.
<b>General notes</b>	<p>This product or portions thereof is manufactured under license from Carnegie Mellon University under U.S. Patent Number 5, 268, 486 and related patents. Cy® and CyDye® are trademarks of Cytiva.</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. Do Not Freeze. Store In the Dark.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.0975% Sodium azide Constituent: PBS
<b>Purity</b>	Size exclusion
<b>Purification notes</b>	Purified antibody is conjugated with tandem dye PerCP/Cy5.5® under optimum conditions. The

	conjugate is purified by size-exclusion chromatography.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	IM7
<b>Isotype</b>	IgG2b

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab234445 in the following tested applications.

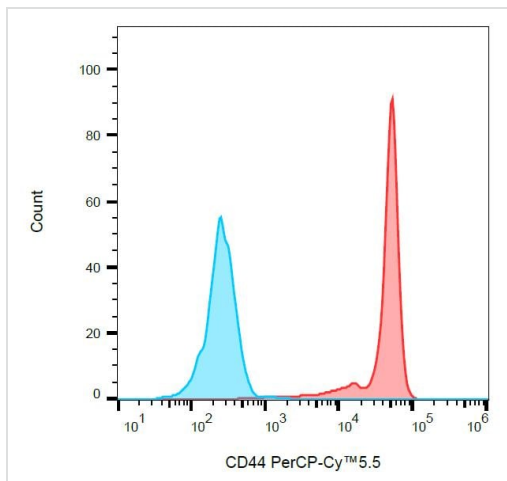
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use a concentration of 1 - 3 µg/ml.

## Target

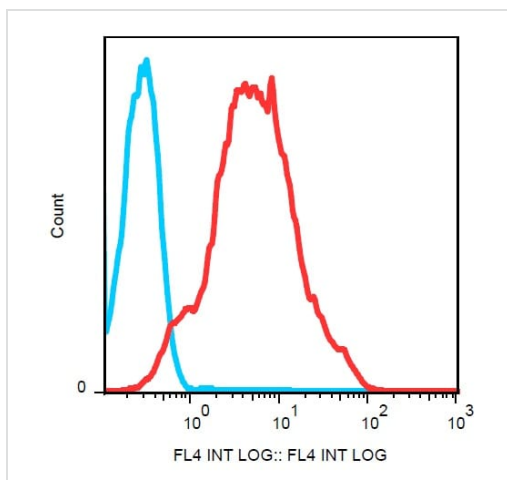
<b>Function</b>	Receptor for hyaluronic acid (HA). Mediates cell-cell and cell-matrix interactions through its affinity for HA, and possibly also through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Adhesion with HA plays an important role in cell 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>	<p>Proteolytically cleaved in the extracellular matrix by specific proteinases (possibly MMPs) in several cell lines and tumors.</p> <p>N-glycosylated.</p> <p>O-glycosylated; contains more-or-less-sulfated chondroitin sulfate glycans, whose number may affect the accessibility of specific proteinases to their cleavage site(s).</p> <p>Phosphorylated; activation of PKC results in the dephosphorylation of Ser-706 (constitutive phosphorylation site), and the phosphorylation of Ser-672.</p>
<b>Cellular localization</b>	Membrane.

## Images



Flow cytometric surface staining analysis of murine splenocytes using 1.7 µg/ml ab234445 to stain CD44 positive cells (red) and unstained cells (blue)

Flow Cytometry - PerCP/Cy5.5® Anti-CD44 antibody [IM7] (ab234445)



Flow cytometric analysis of mouse splenocytes labeling CD44 with ab234445 at 1 µg/ml (red) compared to a blank control (blue). Surface staining.

Flow Cytometry - PerCP/Cy5.5® Anti-CD44 antibody [IM7] (ab234445)

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

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