

### Anti-CD44 antibody [F10-44-2] ab6124

★★★★★ **5 Abreviews** **65 References** **4 图像**

#### 概述

产品名称	Anti-CD44抗体[F10-44-2]
描述	小鼠单克隆抗体[F10-44-2] to CD44
宿主	Mouse
经测试应用	适用于: Flow Cyt, ICC/IF, IHC-P
种属反应性	与反应: Human
免疫原	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
阳性对照	In Flow Cytometry, this antibody gave a positive signal in peripheral blood lymphocytes. In IHC, this antibody gave a positive signal in human kidney carcinoma sections. ICC/IF: A431 cell line.
常规说明	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a>.</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>

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: PBS, 6.97% L-Arginine</p>
纯度	Protein G purified
克隆	单克隆
克隆编号	F10-44-2
同种型	IgG2a

## 应用

### The Abpromise guarantee

**Abpromise™** 承诺保证使用ab6124于以下的经测试应用

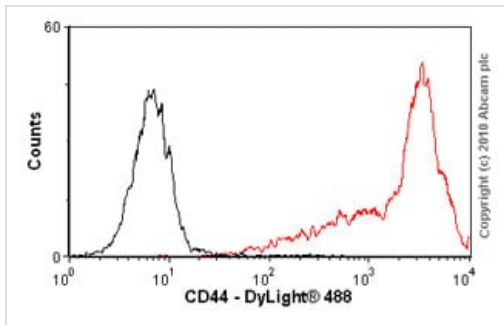
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt		Use 0.5-1 µg for 10 <sup>6</sup> cells. <b>ab170191</b> - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
ICC/IF		Use a concentration of 5 µg/ml.
IHC-P	★★★★★ (3)	Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## 靶标

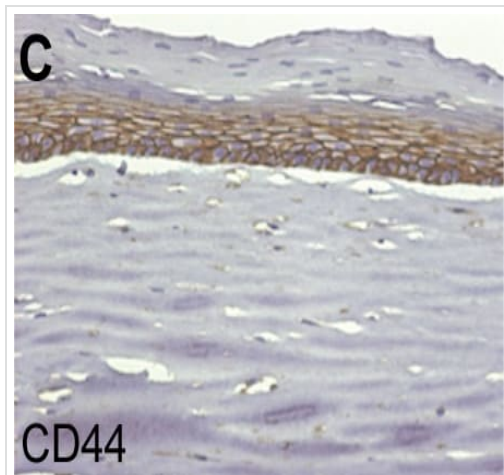
功能	Receptor for hyaluronic acid (HA). Mediates cell-cell and cell-matrix interactions through its affinity for HA, and possibly also through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Adhesion with HA plays an important role in cell migration, 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.
组织特异性	Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma cells.
序列相似性	Contains 1 Link domain.
结构域	The lectin-like LINK domain is responsible for hyaluronan binding.
翻译后修饰	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.
细胞定位	Membrane.

## 图片



Flow Cytometry - Anti-CD44 antibody [F10-44-2]  
(ab6124)

Overlay histogram showing peripheral blood lymphocytes stained with ab6124 (red line). The cells were incubated with the antibody (ab6124, 0.5µg/1x10<sup>6</sup> cells) for 30 min at 4°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H&L) (**ab96879**) at 1/200 dilution for 30 min at 4°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] (**ab91361**, 2µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed gating on peripheral blood lymphocytes.

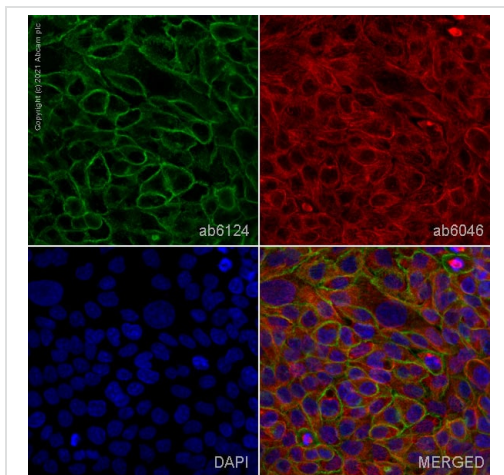


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD44 antibody [F10-44-2]  
(ab6124)

Image from Le Bras GF et al., PLoS One. 2011;6(11):e27063. Epub 2011 Nov 1. Fig 3.; doi:10.1371/journal.pone.0027063; November 1, 2011, PLoS ONE 6(11): e27063.

Immunohistochemical analysis of Human esophageal keratinocytes, staining CD44 with ab6124.

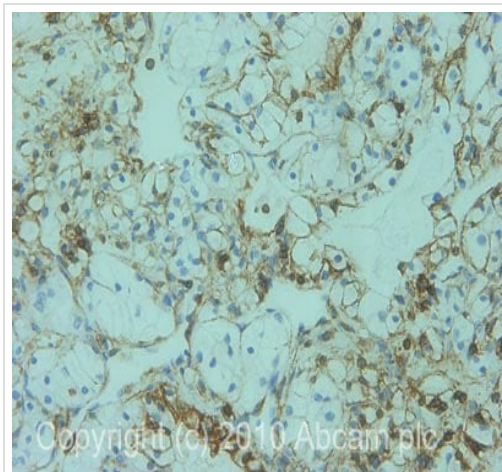
Keratinocytes were cultured *in vivo* to form an epithelium for 15 days before fixing in formaldehyde and embedding in paraffin. Primary antibody was incubated overnight at 4°C and secondary antibody for 30 minutes at 37°C. Staining was detected using DAB.



Immunocytochemistry/ Immunofluorescence - Anti-CD44 antibody [F10-44-2] (ab6124)

ab6124 staining CD44 in A431 cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab6124 at 1µg/ml and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with **ab150117**, Goat polyclonal Secondary Antibody to Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD44 antibody [F10-44-2] (ab6124)

IHC image of CD44 staining in human kidney carcinoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab6124, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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