

# Anti-BCAR1 antibody [M144] ab31831

**5 References**   **3 图像**

### 概述

产品名称	Anti-BCAR1抗体[M144]
描述	小鼠单克隆抗体[M144] to BCAR1
宿主	Mouse
特异性	ab31831 detects a 130 kDa protein corresponding to the molecular mass of p130 Cas on SDS-PAGE immunoblots of human A431, endothelial, and Hct116 cells.
经测试应用	<b>适用于:</b> IHC-P, Flow Cyt (Intra), WB
种属反应性	<b>与反应:</b> Human
免疫原	Fusion protein corresponding to Rat BCAR1 aa 600-850 (C terminal). Database link: <a href="#">Q63767</a>
表位	ab31831 recognises an epitope located in teh C terminal region of BCAR1.
阳性对照	Human A431, endothelial, and Hct116 cells. IHC-P: Human testis tissue sections. Flow Cyt (intra): MCF7 cells
常规说明	<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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.05% Sodium azide Constituents: PBS, 50% Glycerol, 0.1% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	M144
同种型	IgG1

## 应用

**The Abpromise guarantee**      **Abpromise™** 承诺保证使用ab31831于以下的经测试应用

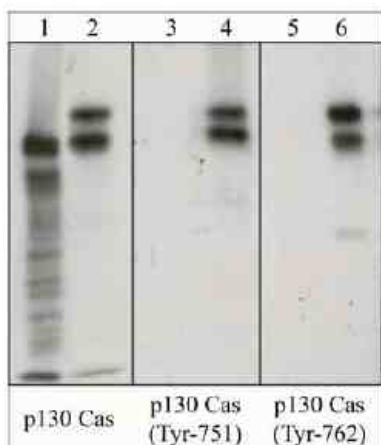
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		1/250.
Flow Cyt (Intra)		1/100. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB		1/1000. Predicted molecular weight: 93 kDa.

## 靶标

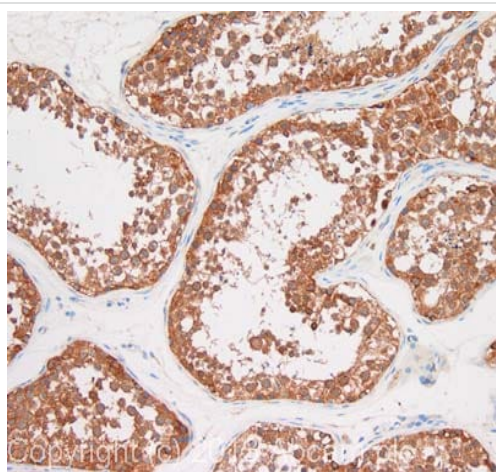
功能	Docking protein which plays a central coordinating role for tyrosine kinase-based signaling related to cell adhesion. Implicated in induction of cell migration. Overexpression confers antiestrogen resistance on breast cancer cells.
组织特异性	Widely expressed with an abundant expression in the testis. Low level of expression seen in the liver, thymus, and peripheral blood leukocytes. The protein has been detected in a B-cell line.
序列相似性	Belongs to the CAS family. Contains 1 SH3 domain.
结构域	Contains a central domain (substrate domain) containing multiple potential SH2-binding sites and a C-terminal domain containing a divergent helix-loop-helix (HLH) motif. The SH2-binding sites putatively bind CRK, NCK and ABL1 SH2 domains. The HLH motif is absolutely required for the induction of pseudohyphal growth in yeast and mediates heterodimerization with NEDD9. A serine-rich region promotes activation of the serum response element (SRE). The SH3 domain is necessary for the localization of the protein to focal adhesions and interacts with one proline-rich region of PTK2/FAK11.
翻译后修饰	PTK2/FAK1 activation mediates phosphorylation at the YDYVHL motif; phosphorylation is most likely catalyzed by SRC family members. SRC-family kinases are recruited to the phosphorylated sites and can phosphorylate other tyrosine residues. Tyrosine phosphorylation is triggered by integrin-mediated adhesion of cells to the extracellular matrix. Dephosphorylated by PTPN14 at Tyr-128.
细胞定位	Cell junction, focal adhesion. Cytoplasm. Unphosphorylated form localizes in the cytoplasm and can move to the membrane upon tyrosine phosphorylation.

## 图片



Western blot - Anti-BCAR1 antibody [M144]  
(ab31831)

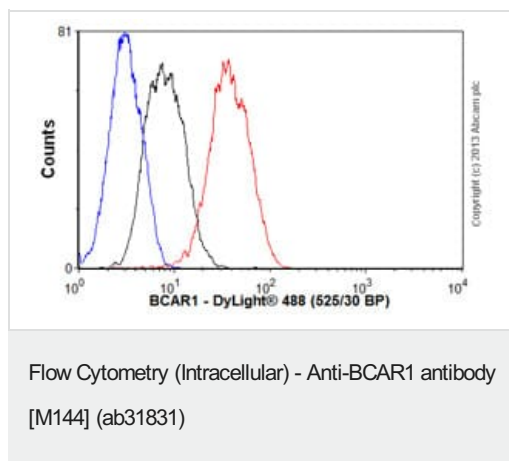
Western blot analysis of human endothelial cells serum starved overnight (lanes 1, 3, & 5) or treated with pervanadate (1 mM) for 30 minutes (lanes 2, 4, & 6). The blot was probed with anti-BCAR1 (ab31831; lanes 1 & 2), anti-BCAR1 (Tyr-751) (lanes 3 & 4) or anti-BCAR1 (Tyr-762) (lanes 5 & 6).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BCAR1 antibody [M144]  
(ab31831)

IHC image of BCAR1 staining in human testis 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 ab31831, 1/200 dilution, 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.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Overlay histogram showing MCF7 cells stained with ab31831 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab31831, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] ([ab91353](#), 2µg/1x10<sup>6</sup> cells) used under the same conditions. Unlabelled sample (blue line). Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

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