abcam

Product datasheet

Anti-FAK antibody [EP695Y] - Low endotoxin, Azide free ab219363

敲除验证 重组 RabMAb

25 References 5 图像

概述

产品名称	Anti-FAK抗体[EP695Y] - Low endotoxin, Azide free
描述	兔单克隆抗体[EP695Y] to FAK - Low endotoxin, Azide free
宿主	Rabbit
特异性	ab219363 recognises Focal adhesion kinase (FAK). The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
经测试应用	**适用于:** WB, IHC-P
种属反应性	**与反应:** Mouse, Rat, Human **预测可用于:** Cow
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: NIH/3T3, Rat brain, HeLa, K-562. A431 and HEK-293T lysates IHC-P: human hepatocellular carcinoma
常规说明	ab219363 is the carrier-free version of **ab40794**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply

- Animal-free production

For more information **see here**.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Our **Low endotoxin, azide-free formats** have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.20 Constituent: PBS
无载体	**是**
纯度	Protein A purified
克隆	单克隆
克隆编号	EP695Y
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab219363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。

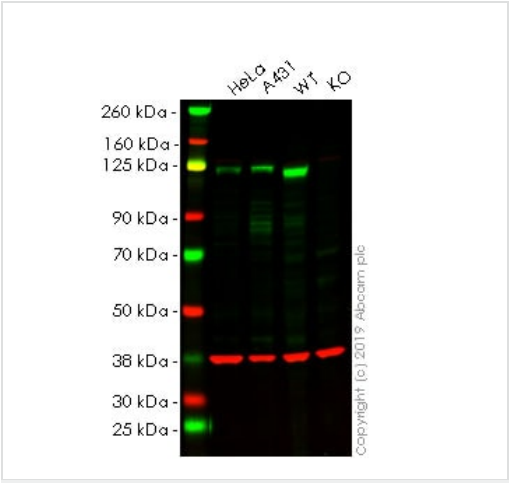
应用	Ab评论	说明
WB		Use at an assay dependent concentration. Detects a band of approximately 125 kDa (predicted molecular weight: 119 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. The mouse, rat and cow recommendation is based on the WB results. We do not guarantee IHC-P for mouse, rat and cow. See **IHC antigen retrieval protocols**.

靶标

功能 Non-receptor protein-tyrosine kinase implicated in signaling pathways involved in cell motility, proliferation and apoptosis. Activated by tyrosine-phosphorylation in response to either integrin clustering induced by cell adhesion or antibody cross-linking, or via G-protein coupled receptor (GPCR) occupancy by ligands such as bombesin or lysophosphatidic acid, or via LDL receptor occupancy. Microtubule-induced dephosphorylation at Tyr-397 is crucial for the induction of focal adhesion disassembly. Plays a potential role in oncogenic transformations resulting in increased

	kinase activity.
组织特异性	Expressed in all organs tested, in lymphoid cell lines, but most abundantly in brain.
序列相似性	Belongs to the protein kinase superfamily. Tyr protein kinase family. FAK subfamily. Contains 1 FERM domain. Contains 1 protein kinase domain.
结构域	The first Pro-rich domain interacts with the SH3 domain of CRK-associated substrate (BCAR1) and CASL. The carboxy-terminal region is the site of focal adhesion targeting (FAT) sequence which mediates the localization of FAK1 to focal adhesions.
翻译后修饰	Phosphorylated on 6 tyrosine residues upon activation. Microtubule-induced dephosphorylation at Tyr-397 could be catalyzed by PTPN11 and regulated by ZFYVE21. Dephosphorylated by PTPN11 upon EPHA2 activation by its ligand EFNA1.
细胞定位	Cell junction > focal adhesion. Cell membrane. Constituent of focal adhesions.

图片



Western blot - Anti-FAK antibody [EP695Y] - Low endotoxin, Azide free (ab219363)

All lanes : Anti-FAK antibody [EP695Y] (**ab40794**) at 1/1000 dilution

Lane 1 : HeLa cell lysate
Lane 2 : A431 cell lysate
Lane 3 : Wild-type HEK-293T cell lysate
Lane 4 : PTK2 knockout HEK-293T cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

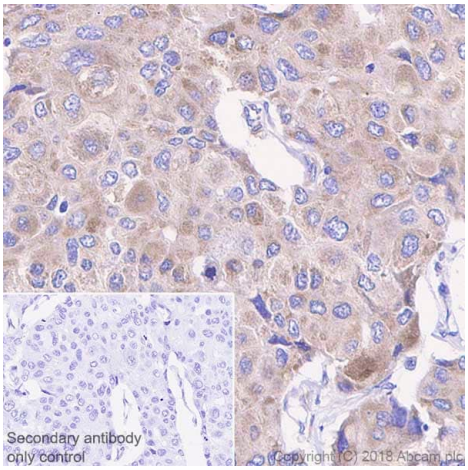
Predicted band size: 119 kDa
Observed band size: 119 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab40794**).

Lanes 1 - 4: Merged signal (red and green). Green - **ab40794** observed at 119 kDa. Red - loading control, **ab8245** observed at 37 kDa.

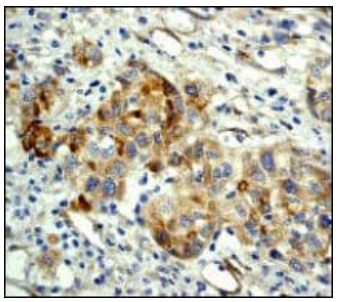
ab40794 was shown to react with FAK in wild-type HEK-293T cells. Loss of signal was observed when knockout cell line **ab255421** (knockout cell lysate **ab263766**) was used. Wild-type and FAK knockout samples were subjected to SDS-PAGE. **ab40794** and Anti-GAPDH antibody [6C5] - Loading Control

(**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



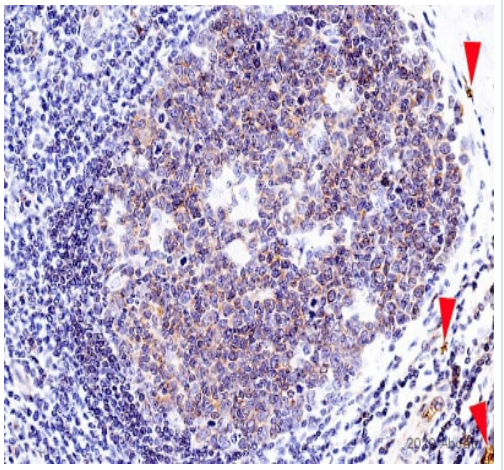
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FAK antibody [EP695Y] - Low endotoxin, Azide free (ab219363)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human hepatocellular carcinoma tissue sections labeling FAK with purified **ab40794** at 1:250 dilution (2.32 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody. Negative control:PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FAK antibody [EP695Y] - Low endotoxin, Azide free (ab219363)

Immunohistochemical analysis of paraffin-embedded human hepatocellular carcinoma using **ab40794**.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab40794**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FAK antibody [EP695Y] - Low endotoxin, Azide free (ab219363)

This image is courtesy of an Abreview submitted by Carl Hobbs.

The image shows FAK antibody (**ab40794**) in human spleen tissue. Clear cytoplasmic positivity in a subset of germinal centre cells. The there is intense positivity of the serum in the blood vessels. Endogenous peroxidases was blocked using 2% H2O2, for 15 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab40794**).

Anti-FAK antibody [EP695Y] - Low endotoxin, Azide free (ab219363)

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