

# Anti-FAK antibody [EP695Y] - BSA and Azide free ab271836


KO VALIDATED

Recombinant

RabMAb

7 Images

### Overview

<b>Product name</b>	Anti-FAK antibody [EP695Y] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EP695Y] to FAK - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Specificity</b>	ab271836 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.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human <b>Predicted to work with:</b> Cow 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	IHC-P: human hepatocellular carcinoma
<b>General notes</b>	ab271836 is the carrier-free version of <a href="#">ab40794</a> .

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<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> 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<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.20 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP695Y
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab271836 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

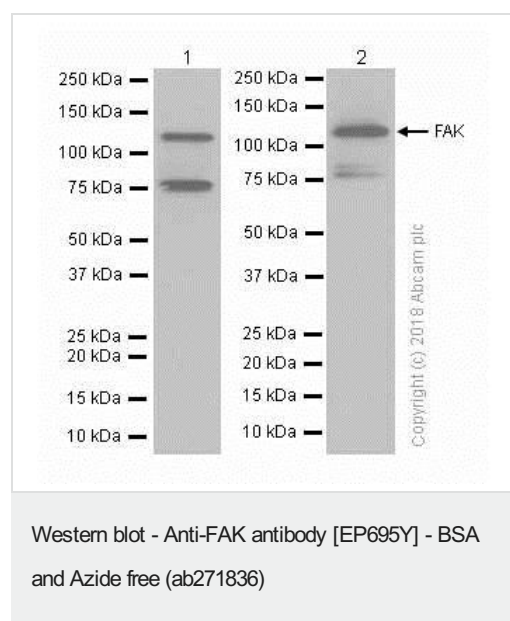
Application	Abreviews	Notes
<b>WB</b>		Use at an assay dependent concentration. Predicted molecular weight: 119 kDa. For unpurified use at 1/1000
<b>IHC-P</b>		Use at an assay dependent concentration. The mouse, rat and cow recommendation is based on the WB results. We do not guarantee IHC-P for mouse, rat and cow. See IHC antigen retrieval protocols.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	Expressed in all organs tested, in lymphoid cell lines, but most abundantly in brain.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. Tyr protein kinase family. FAK subfamily.

	Contains 1 FERM domain. Contains 1 protein kinase domain.
<b>Domain</b>	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.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	Cell junction > focal adhesion. Cell membrane. Constituent of focal adhesions.

## Images



**All lanes :** Anti-FAK antibody [EP695Y] ([ab40794](#)) at 1/2000 dilution

**Lane 1 :** HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

**Lane 2 :** K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysates

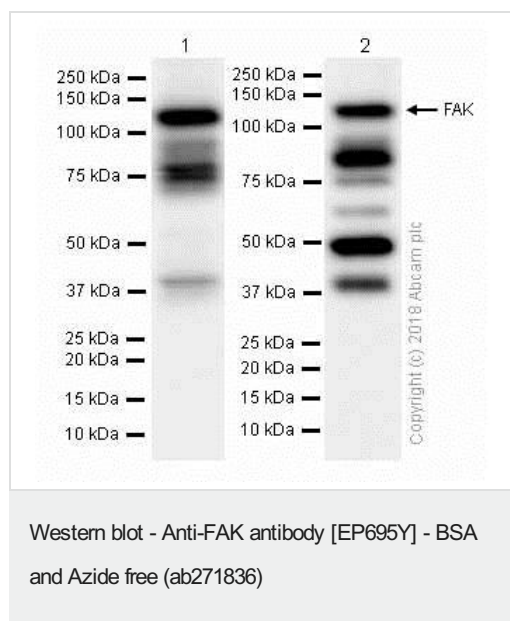
Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 119 kDa

This data was developed using [ab40794](#), the same antibody clone in a different buffer formulation.



**All lanes :** Anti-FAK antibody [EP695Y] ([ab40794](#)) at 1/2000 dilution

**Lane 1 :** NIH/3T3 (Mouse embryonic fibroblast) whole cell lysates

**Lane 2 :** Rat brain lysates

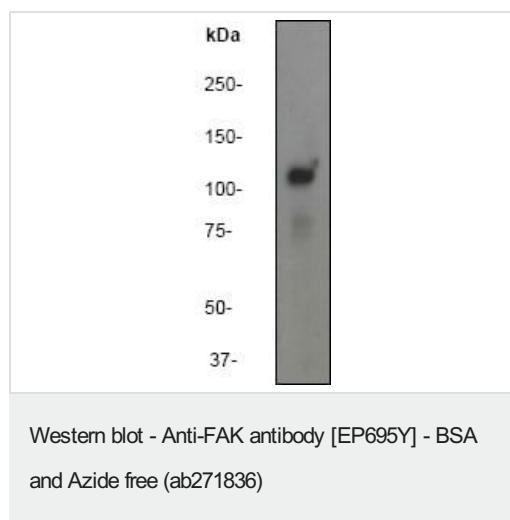
Lysates/proteins at 20 µg per lane.

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

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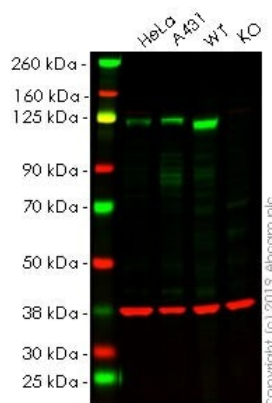


Anti-FAK antibody [EP695Y] ([ab40794](#)) at 1/1000 dilution + HeLa cell lysate

**Predicted band size:** 119 kDa

**Observed band size:** 119 kDa

This data was developed using [ab40794](#), the same antibody clone in a different buffer formulation.



Western blot - Anti-FAK antibody [EP695Y] - BSA and Azide free (ab271836)

**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

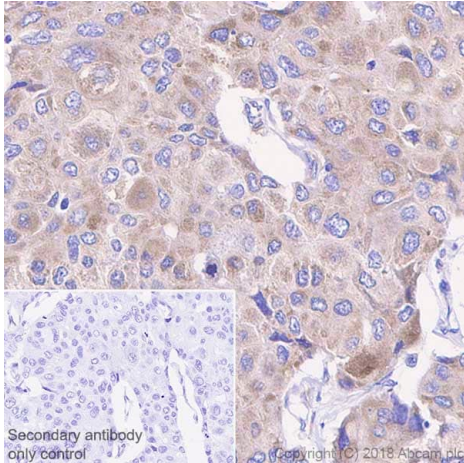
Lysates/proteins at 20 µg per lane.

**Predicted band size:** 119 kDa

This data was developed using [ab40794](#), the same antibody clone in a different buffer formulation

**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.



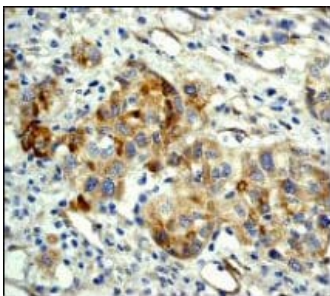
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FAK antibody [EP695Y] - BSA and Azide free (ab271836)

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. Perform heat mediated antigen retrieval 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.

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] - BSA and Azide free (ab271836)

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](#)).

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-FAK antibody [EP695Y] - BSA and Azide free  
(ab271836)

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

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