abcam

Product datasheet

Anti-FXR1 antibody [EPR7932] ab129089

KO VALIDATED Recombinant RabMAb

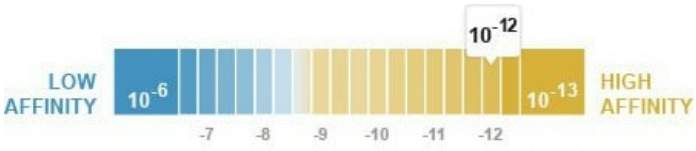
★★★★★ 1 Abreviews 17 References 7 Images

Overview

Product name	Anti-FXR1 antibody [EPR7932]
Description	Rabbit monoclonal [EPR7932] to FXR1
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, IHC-P, ICC/IF **Unsuitable for:** IP
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Fetal muscle, MCF7, 293T, Hep G2, A549, HeLa, and fetal heart lysates, Human brain tissue.
General notes	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**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	$K_D = 5.30 \times 10^{-12}$ M



Learn more about K_D

Storage buffer	pH: 7.20

	Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR7932
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab129089 in the following tested applications.

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

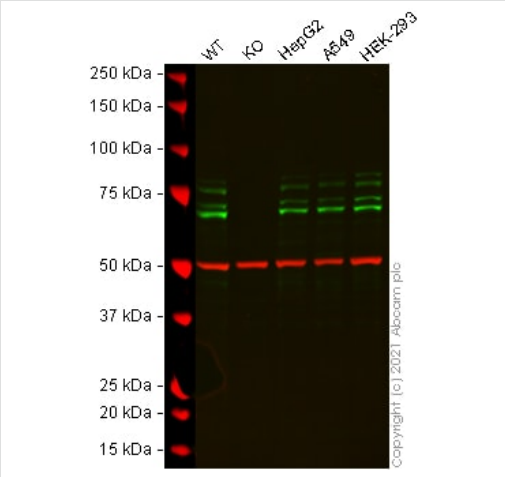
Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB	★★★★★ (1)	1/1000 - 1/10000. Detects a band of approximately 70-78 kDa (predicted molecular weight: 70 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		1/250 - 1/500.

Application notes Is unsuitable for IP.

Target

Function	RNA-binding protein required for embryonic and postnatal development of muscle tissue. May regulate intracellular transport and local translation of certain mRNAs.
Tissue specificity	Expressed in all tissues examined including heart, brain, kidney and testis.
Sequence similarities	Belongs to the FMR1 family. Contains 2 KH domains.
Post-translational modifications	Arg-445 is dimethylated, probably to asymmetric dimethylarginine.
Cellular localization	Cytoplasm.

Images



Western blot - Anti-FXR1 antibody [EPR7932] (ab129089)

All lanes : Anti-FXR1 antibody [EPR7932] (ab129089) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : FXR1 knockout HeLa cell lysate
Lane 3 : HepG2 cell lysate
Lane 4 : A549 cell lysate
Lane 5 : HEK-293 cell lysate

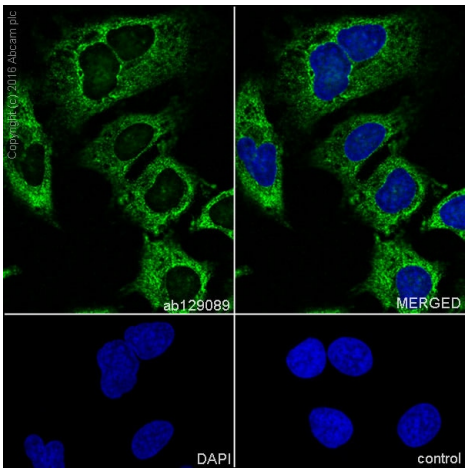
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 70 kDa
Observed band size: 70-80 kDa

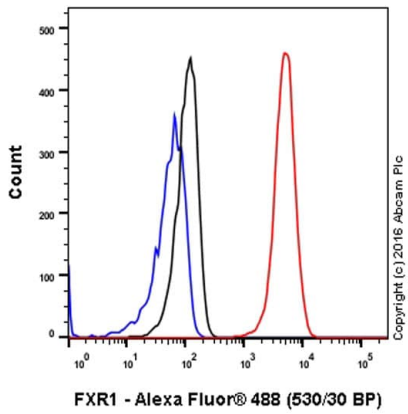
Lanes 1 - 5: Merged signal (red and green). Green - ab129089 observed at 70-80 kDa. Red - loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) observed at 55 kDa.

ab129089 was shown to react with FXR1 in wild-type HeLa cells in Western blot with loss of signal observed in FXR1 knockout cell line **ab264017** (knockout cell lysate **ab264505**). Wild-type HeLa and FXR1 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab129089 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-FXR1 antibody [EPR7932] (ab129089)

Immunocytochemistry/Immunofluorescence analysis of HeLa (Human epithelial cell line from cervix adenocarcinoma) labeling FXR1 with purified ab129089 at 1/500 dilution. Cells were fixed with 100% methanol. **ab150077** Goat anti rabbit IgG (Alexa Fluor®488) at 1/1000 was used as the secondary antibody. Nuclei were counterstained with DAPI. PBS was used instead of the primary antibody as the negative control.

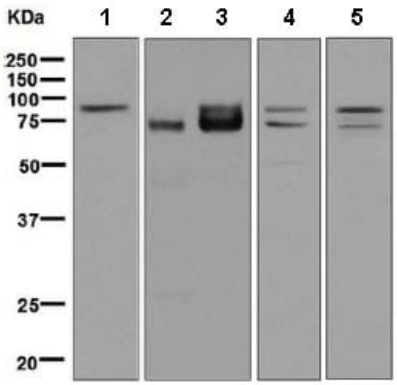


Flow Cytometry (Intracellular) - Anti-FXR1 antibody [EPR7932] (ab129089)

ab129089 staining FXR1 in the human cell line HeLa (human cervix adenocarcinoma) by intracellular flow cytometry. Cells were fixed with 4% paraformaldehyde, permiabilised with 90% methanol and the sample was incubated with the primary antibody at a dilution of 1/60. A goat anti rabbit IgG (Alexa Fluor® 488) at a dilution of 1/2000 was used as the secondary antibody.

Isoytype control: Rabbit monoclonal IgG (Black)

Unlabelled control: Cell without incubation with primary antibody and secondary antibody (Blue)



Western blot - Anti-FXR1 antibody [EPR7932] (ab129089)

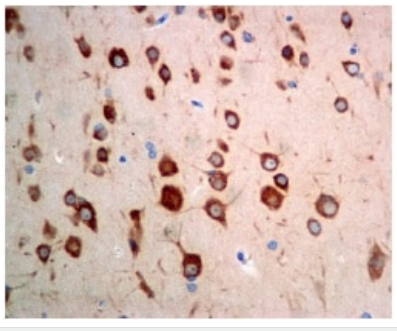
All lanes : Anti-FXR1 antibody [EPR7932] (ab129089) at 1/1000 dilution

Lane 1 : Fetal muscle lysate
Lane 2 : MCF7 lysate
Lane 3 : 293T lysate
Lane 4 : HeLa lysate
Lane 5 : Fetal heart lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

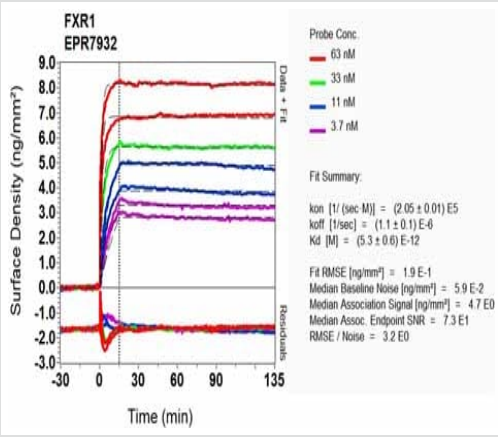
Predicted band size: 70 kDa
Observed band size: 70-78 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FXR1 antibody [EPR7932] (ab129089)

ab129089, at a dilution of 1/100, staining FXR1 in paraffin-embedded Human brain tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

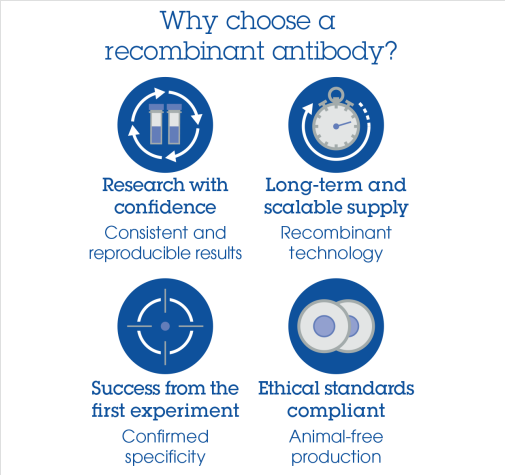


OI-RD Scanning - Anti-FXR1 antibody [EPR7932] (ab129089)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D



Anti-FXR1 antibody [EPR7932] (ab129089)

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