DATASHEET

FXR1 Rabbit Polyclonal Antibody

CAT. NO. ARA5800

KEY FEATURES

Target	FXR1	**Source / Host**	Rabbit
Reactivity	Human, Mouse, Rat, Green monkey	**Clonality**	Polyclonal
Applications	WB,IHC,IF/ICC,FC	**Conjugation**	Unconjugated
Isotype	IgG	**Storage**	at -20°C

BACKGROUND

Fragile X mental retardation syndrome-related protein 1 (FXR1) is an RNA-binding protein encoded by the FXR1 gene. FXR1 interacts with the functionally similar proteins FMR1 and FXR2; these proteins shuttle between the nucleus and the cytoplasm and associate with polyribosomes, predominantly with the 60S ribosomal subunit. FXR1 is a component of cytoplasmic ribonucleoprotein granules and stress granules and participates in the transport and translational regulation of mRNAs in neurons and germ cells. Three transcript variants encoding different isoforms have been found for this gene.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:1,000 - 1:2,000
IHC	1:500 - 1:1,000
IF/ICC	1:500 - 1:1,000
FC	1:500 - 1:1,000

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Rabbit polyclonal antibody to FXR1 for WB, IHC, IF/ICC and FC.
Specificity	Recognizes endogenous levels of FXR1 protein
Immunogen	Recombinant protein within human FXR1 aa 1-150 / 621.
Molecular Weight	Predicted: 70 kDa; Observed: 70/75/80 kDa
Purification	Protein A affinity purification
Isotype	IgG
Form/Buffer	Liquid in PBS (pH 7.4) with 0.1% BSA, 40% glycerol and 0.05% sodium azide.
Subcellular Location	Cytoplasm, Cytoplasmic ribonucleoprotein granule, Stress granule, Cell projection, dendrite, dendritic spine, axon, Nucleus envelope, Postsynapse.
Alternative Names	FXR1, FXR1P, hFXR1p, Fragile X mental retardation autosomal homolog 1, Fragile X mental retardation syndrome-related protein 1
Gene Symbol	FXR1
Entrez Gene	8087 (Human); 14359 (Mouse); 361927 (Rat)
SwissProt	P51114 (Human); Q61584 (Mouse); Q5XI81 (Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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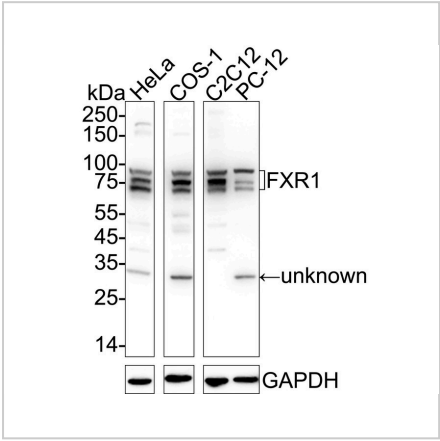
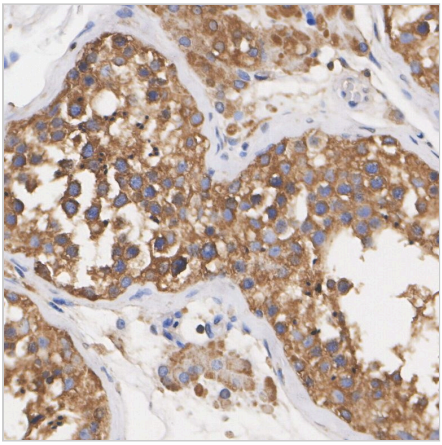
DATA



Western blot analysis of FXR1 on different lysates with FXR1 Rabbit Polyclonal Antibody at 1:2,000 dilution.

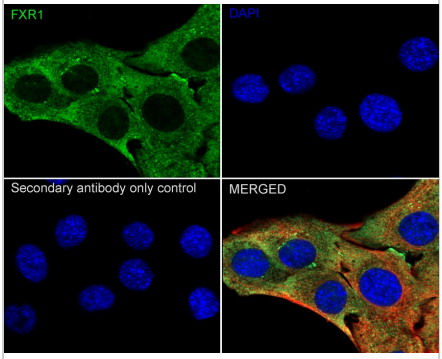
Lane 1: HeLa cell lysate
Lane 2: COS-1 cell lysate
Lane 3: C2C12 cell lysate
Lane 4: PC-12 cell lysate

Lysates/proteins at 20 µg/lane.
Predicted band size: 70 kDa
Observed band size: 70/75/80 kDa



Immunohistochemical analysis of paraffin-embedded human testis tissue with FXR1 Rabbit Polyclonal Antibody at 1:1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody at 1:1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunofluorescent analysis of C2C12 cells labeling FXR1 with FXR1 Rabbit Polyclonal Antibody at 1:1,000 dilution.

Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with the primary antibody at 1:1,000 dilution in 1% BSA in PBST overnight at 4°C. AREX® Fluor 488-conjugated Goat Anti-Rabbit IgG (H+L) was used as the secondary antibody at 1:1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI. Beta tubulin was stained at 1:100 dilution overnight at 4°C with AREX® Fluor 594-conjugated Goat Anti-Mouse IgG (H+L) at 1:1,000 dilution.

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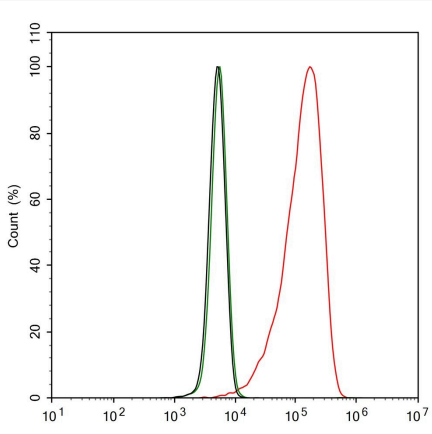

Flow cytometric analysis of C2C12 cells labeling FXR1.

Cells were fixed and permeabilized. Then stained with the primary antibody at 1:1,000 dilution (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at 4°C for an hour, the cells were stained with AREX® Fluor 488-conjugated Goat Anti-Rabbit IgG (H+L) at 1:1,000 dilution for 30 minutes at 4°C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com