

DATASHEET

FXR Rabbit Polyclonal Antibody

CAT. NO. ARA6802

KEY FEATURES

Target	FXR	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB	Storage	-20°C

BACKGROUND

FXR (farnesoid X receptor; NR1H4) belongs to nuclear receptor superfamily of ligand-activated transcription factors (NR1 subfamily) and acts as a receptor for bile acids such as chenodeoxycholic acid, lithocholic acid and deoxycholic acid. FXR plays an essential role in bile acid homeostasis through the regulation of genes involved in bile acid synthesis, conjugation and enterohepatic circulation. FXR also regulates lipid and glucose homeostasis and is involved innate immune response. The FXR-RXR heterodimer binds predominantly to farnesoid X receptor response elements (FXREs) containing two inverted repeats of the consensus sequence 5'-AGGTCA-3' in which the monomers are spaced by 1 nucleotide (IR-1) but also to tandem repeat DR1 sites with lower affinity, and can be activated by either FXR or RXR-specific ligands. In the liver FXR activates transcription of the corepressor NR0B2 thereby indirectly inhibiting CYP7A1 and CYP8B1 (involved in BA synthesis) implicating at least in part histone demethylase KDM1A resulting in epigenomic repression, and SLC10A1/NTCP (involved in hepatic uptake of conjugated BAs). FXR activates transcription of SLC27A5/BACS and BAAT (involved in BA conjugation), ABCB11/BSEP (involved in bile salt export) by directly recruiting histone methyltransferase CARM1, and ABCC2/MRP2 (involved in secretion of conjugated BAs) and ABCB4 (involved in secretion of phosphatidylcholine in the small intestine).

APPLICATION

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

WB	1:500 - 1:2000
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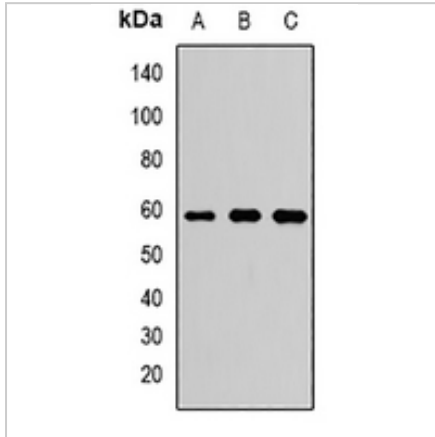
*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Immunogen	Recombinant full length protein of human FXR
Purification	The antibody was purified by immunogen affinity chromatography
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide
Gene Name	NR1H4
Alternative Names	BAR; FXR; HRR1; RIP14; Bile acid receptor; Farnesoid X-activated receptor; Farnesol receptor HRR-1; Nuclear receptor subfamily 1 group H member 4; Retinoid X receptor-interacting protein 14; RXR-interacting protein 14
Gene ID (Rat)	60351
Protein ID (Human)	Q96R11
Protein ID (Mouse)	Q60641
Protein ID (Rat)	Q62735

*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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Western blot analysis of FXR expression in HepG2 (A), HeLa (B), SW480 (C) whole cell lysates. (Predicted band size: 48; 54; 55 kD; Observed band size: 59 kD)

STORAGE

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

NOTE

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

More information: www.arexbio.com