Datasheet for ABIN1714781

anti-NR1H4 antibody (AA 175-280)

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Overview

Quantity:	100 µL
Target:	NR1H4
Binding Specificity:	AA 175-280
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NR1H4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Bile Acid Receptor NR1H4
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat,Dog,Cow,Sheep,Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target:	NR1H4

Target Details

Alternative Name:	Bile Acid Receptor NR1H4 (NR1H4 Products)
Background:	Synonyms: BAR, FXR, HRR1, HRR-1, PFIC5, 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, NR1H4 Background: The steroid receptor superfamily acts through direct association with DNA sequences known as hormone response elements (HREs) and binds DNA as either homo- or heterodimers. The promiscuous mediator of heterodimerization, RXR, is the receptor for 9-cis retinoic acid, and dimerizes with VDR, TR, PPAR, and several novel receptors including LXR (also referred to as RLD-1) and FXR. FXR and LXR fall into a category of proteins termed orphan receptors? because of their lack of a defined function, and in the case of LXR, the lack of a defined ligand. FXR has been shown to bind a class of lipid molecules called farnesoids. LXR/RXR heterodimers have highest affinity for DR-4 DNA elements while FXR/RXR heterodimers bind IR-1 elements. Both LXR/RXR and FXR/RXR heterodimers retain their responsiveness to 9-cis retinoic acid.
Gene ID:	9971
UniProt:	Q96RI1
Pathways:	Nuclear Receptor Transcription Pathway, Steroid Hormone Mediated Signaling Pathway, Regulation of Carbohydrate Metabolic Process

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
	ICC 1:100-500

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL

Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

Zhao, Elhafiz, Jiang, Das, Li, Zhou, Fan, Wang, Yuan, Xu, Jiang, Zhang, Wang: "Adaptive homeostasis of the vitamin D-vitamin D nuclear receptor axis in 8-methoxypsoralen-induced hepatotoxicity." in: **Toxicology and applied pharmacology**, Vol. 362, pp. 150-158, (2019) (PubMed).

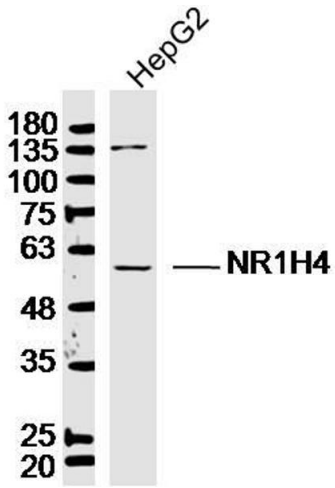
Yang, Mei, Xu, Zhou, Zhu, Sun, Huang, Wang, Shu, Liu, Ding, Hassan, Zhang, Jiang: "Early indications of ANIT-induced cholestatic liver injury: Alteration of hepatocyte polarization and bile acid homeostasis." in: **Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association**, Vol. 110, pp. 1-12, (2018) (PubMed).

Zhang, Hwang, Oh, Park, Chung, Lee, Baek, Ryoo, Woo: "Effects of the fibrous topography-mediated macrophage phenotype transition on the recruitment of mesenchymal stem cells: An in vivo study." in: **Biomaterials**, Vol. 149, pp. 77-87, (2018) (PubMed).

Yu, Liu, Yuan, Li, Yang, Yuan, Sun, Zhang, Jiang: "SRT1720 Alleviates ANIT-Induced Cholestasis in a Mouse Model." in: **Frontiers in pharmacology**, Vol. 8, pp. 256, (2017) (PubMed).

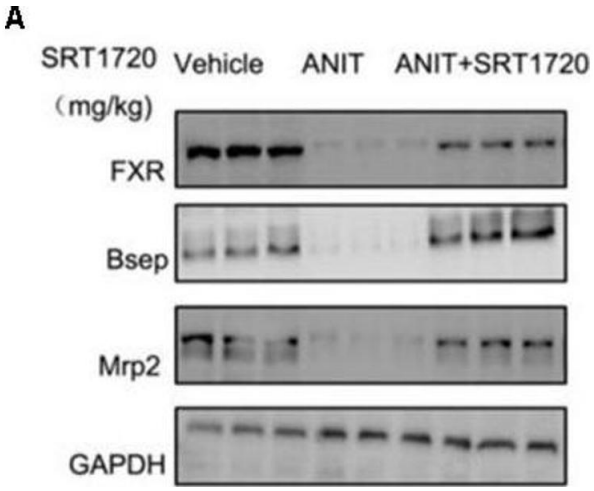
Zhou, Lin, Chen, Wang, Liu, Xia: "Retinoic acid induces macrophage cholesterol efflux and inhibits atherosclerotic plaque formation in apoE-deficient mice." in: **The British journal of nutrition**, Vol. 114, Issue 4, pp. 509-18, (2015) (PubMed).

There are more publications referencing this product on: Product page



Western Blotting

Image 1. Lane 1: HepG2 lysates probed with Bile Acid Receptor NR1H4 Antibody at 1:300 overnight at 4˚C. Followed by a conjugated secondary antibody at 1:10000 for 90 min at 37˚C.



Western Blotting

Image 2. SRT1720 restored the protein expressions of FXR, Bsep, and Mrp2 in mice total livers. (A) Western blot analysis was used to measure FXR, Bsep, and Mrp2 expressions. (B) Specific band intensity was quantified, normalized to GAPDH. (C) Immunofluorescence staining of frozen liver sections showing Bsep and Mrp2 expressions. (D) Fluorescent intensities of Bsep and Mrp2 were measured by Image-Pro Plus software. - figure provided by CiteAb. Source: PMID28553227

