Datasheet for ABIN3042451

anti-HNF1A antibody (AA 431-631)

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Overview

Quantity:	100 µg
Target:	HNF1A
Binding Specificity:	AA 431-631
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HNF1A antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Hepatocyte nuclear factor 1-alpha(HNF1A) detection. Tested with WB in Human,Rat.
Immunogen:	E.coli-derived human HNF1 recombinant protein (Position: A431-Q631). Human HNF1 shares 93% and 92% amino acid (aa) sequences identity with mouse and rat HNF1, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Hepatocyte nuclear factor 1-alpha(HNF1A) detection. Tested with WB in Human,Rat. Gene Name: HNF1 homeobox A Protein Name: Hepatocyte nuclear factor 1-alpha
Purification:	Immunogen affinity purified.

Target Details

Target:	HNF1A
Alternative Name:	HNF1A (HNF1A Products)
Background:	HNF1 homeobox A (hepatocyte nuclear factor 1 homeobox A), also known as HNF1A or TCF1, is a human gene. It is mapped to chromosome 12q24.3. The protein encoded by this gene is a transcription factor that is highly expressed in the liver and is involved in the regulation of the expression of several liver-specific genes. HNF1A can function as a dimer. What's more, deletion of the HNF1A activation domains or interruption of the HNF1-binding sites in the LCT promoter resulted in complete loss of transcriptional activity. Synonyms: Albumin proximal factor antibody|Hepatic nuclear factor 1 alpha antibody|Hepatic nuclear factor 1 antibody|Hepatic transcription factor 1 alpha antibody|Hepatic transcription factor 1 antibody|Hepatocyte nuclear factor 1-alpha antibody|HNF 1 antibody|HNF 1A antibody|HNF-1-alpha antibody|HNF-1A antibody|HNF1A antibody|HNF1A_HUMAN antibody|Interferon production regulator factor antibody|LF B1 antibody|LF B1 hepatic nuclear factor antibody|LFB 1 antibody|LFB1 antibody|LFB1 hepatic nuclear factor antibody|Liver specific transcription factor LF B1 antibody|Liver specific transcription factor LFB1 antibody|Liver-specific transcription factor LF-B1 antibody|Maturity onset diabetes of the young 3 antibody|MODY 3 antibody|MODY3 antibody|TCF 1 antibody|TCF-1 antibody|TCF1 antibody|Transcription factor 1 antibody|Transcription factor 1 hepatic antibody
Gene ID:	6927
UniProt:	P20823
Pathways:	Hormone Transport, Carbohydrate Homeostasis

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, The detection limit for HNF1 is approximately 0.25 ng/lane under reducing conditions. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in:	Qian, Feng, Sun, Xiong, Ding, Han, Chen, Chen, Du, Wang: "Overexpression of Salusin-α Inhibits Vascular Intimal Hyperplasia in an Atherosclerotic Rabbit Model." in: **BioMed research international**, Vol. 2018, pp. 8973986, (2019) (PubMed). Xie, Li, Pi, Wu, Zeng, Zuo, Zha: "[Down-regulation of p38 MAPK and collagen by 1, 25-(OH)2-VD3 in rat models of diabetic nephropathy]." in: **Xi bao yu fen zi mian yi xue za zhi = Chinese journal of cellular and molecular immunology**, Vol. 32, Issue 7, pp. 931-5, (2017) (PubMed). Li, Lu, Sun, Zuo, Wang, Yan: "Inhibition of endoplasmic reticulum stress signaling pathway: A new mechanism of statins to suppress the development of abdominal aortic aneurysm." in: **PLoS ONE**, Vol. 12, Issue 4, pp. e0174821, (2017) (PubMed). Wu, Chang, Ren, Hu, Li, Liu: "Bindarit reduces the incidence of acute aortic dissection complicated lung injury via modulating NF-κB pathway." in: **Experimental and therapeutic medicine**, Vol. 14, Issue 3, pp. 2613-2618, (2017) (PubMed). Sun, Zhang, Zhao, Zhen, Huang, Wang, He, Liu, Xu, Yang, Qu, Ma, Zhang, Zhang, Hu: "Attenuation of atherosclerotic lesions in diabetic apolipoprotein E-deficient mice using gene silencing of macrophage migration inhibitory factor." in: **Journal of cellular and molecular medicine**, Vol.

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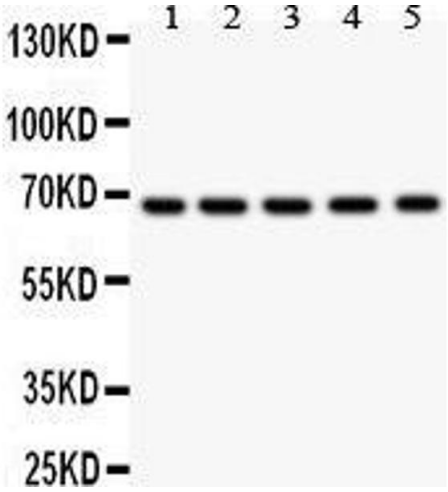
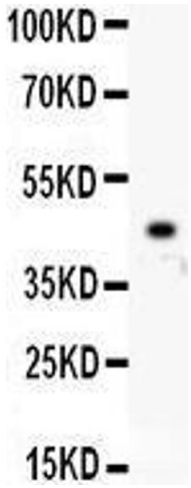
19, Issue 4, pp. 836-49, (2016) (PubMed).

Images



Western Blotting

Image 1. Anti- HNF1 antibody, Western blotting All lanes: Anti HNF1 at 0.5ug/ml Lane 1: Rat Liver Tissue Lysate at 50ug Lane 2: Rat Kidney Tissue Lysate at 50ug Lane 3: RH35 Whole Cell Lysate at 40ug Lane 4: HELA Whole Cell Lysate at 40ug Lane 5: HEPG2 Whole Cell Lysate at 40ug Predicted bind size: 67KD Observed bind size: 67KD



Western Blotting

Image 2.