

Rabbit HNF4A Polyclonal Antibody | anti-HNF4A antibody

HNF4A Antibody

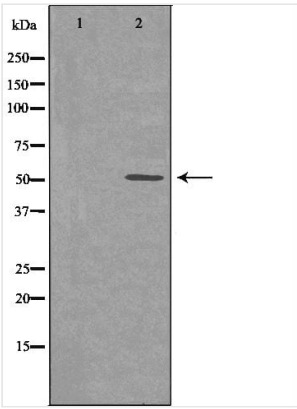
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326570	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

HNF4A; Polyclonal Antibody; HNF4A Antibody; FLJ39654; FRTS4; Hepatic nuclear factor 4 alpha; Hepatocyte nuclear factor 4 alpha; Hepatocyte nuclear factor 4; Hepatocyte nuclear factor 4-alpha; HNF 4 alpha; HNF 4; HNF-4-alpha; HNF4; HNF4A_HUMAN; HNF4a7; HNF4a8; HNF4a9; Hnf4alpha; HNF4alpha10/11/12; MODY 1; MODY; MODY1; NR2A1; NR2A21; Nuclear receptor subfamily 2 group A member 1; OTTHUMP00000031060; OTTHUMP00000031062; TCF 14; TCF; TCF-14; TCF14; Tcf4; Transcription factor 14; hepatic nuclear factor; Transcription factor HNF 4; Transcription factor HNF-4; Transcription factor HNF4; anti-HNF4A antibody

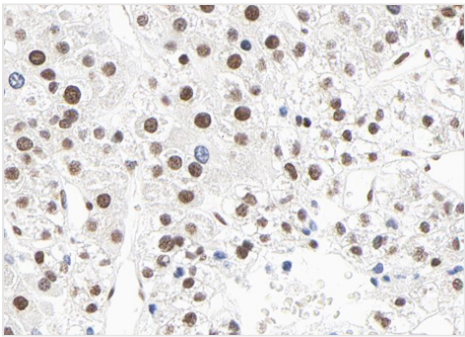
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	HNF4A antibody detects endogenous levels of total HNF4A
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	474
Applicable Applications for anti-HNF4A antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human HNF4A
Subcellular Location	Nucleus.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)

Western blot analysis of Huvec whole cell lysates, using HNF4A Antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326570 at 1/100 staining human liver tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA326570 staining LOVO by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-HNF4A antibody

Description: Hepatocyte nuclear factor 4alpha (HNF4alpha) is a transcription factor that belongs to the steroid hormone receptor superfamily and is enriched in liver (1). HNF4alpha, in association with PGC-1alpha, activates gluconeogenic genes such as phosphoenolpyruvate carboxykinase and glucose-6-phosphatase genes in fasted livers (2, 3). Conditional knockout of the HNF4alpha gene in the mouse liver destroys lipid homeostasis and leads to lipid accumulation in the liver and a reduction of serum cholesterol and triglyceride levels (4). Mutations in HNF4alpha have been linked to maturity-onset diabetes of the young (MODY) (5).

Function: Transcriptionally controlled transcription factor. Binds to DNA sites required for the transcription of alpha 1-antitrypsin, apolipoprotein CIII, transthyretin genes and HNF1-alpha. May be essential for development of the liver, kidney and intestine.

Subunit Structure: Homodimerization is required for HNF4-alpha to bind to its recognition site. Interacts with PER2.

Post-translational Modifications: Phosphorylated on tyrosine residue(s); phosphorylation is important for its DNA-binding activity. Phosphorylation may directly or indirectly play a regulatory role in the subnuclear distribution. Phosphorylation at Ser-313 by AMPK reduces the ability to form homodimers and bind DNA. Acetylation at Lys-458 lowers transcriptional activation by about two-fold.

Similarity: Belongs to the nuclear hormone receptor family. NR2 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31077205
NCBI GeneID	3172
NCBI Accession #	NP_000448.3

NCBI GenBank Nucleotide #	NM_000457.4
UniProt Accession #	P41235; O00659; O00723; Q14540; Q5QPB8; Q6B4V5; Q6B4V6; Q6B4V7; Q92653; Q92654; A5JW41; B2RPP8
Molecular Weight	Observed: 52 kDa Predicted: 53 kDa
NCBI Official Full Name	hepatocyte nuclear factor 4-alpha isoform 2
NCBI Official Synonym Full Names	hepatocyte nuclear factor 4 alpha
NCBI Official Symbol	HNF4A
NCBI Official Synonym Symbols	TCF; HNF4; MODY; FRTS4; MODY1; NR2A1; TCF14; HNF4a7; HNF4a8; HNF4a9; NR2A21; HNF4alpha
NCBI Protein Information	hepatocyte nuclear factor 4-alpha
UniProt Protein Name	Hepatocyte nuclear factor 4-alpha
UniProt Gene Name	HNF4A
UniProt Synonym Gene Names	HNF4; NR2A1; TCF14; HNF-4-alpha; TCF-14

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hnf4a-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326570>