

HNF1 α Antibody

✓ 100 μ l
(10 western blots)

Orders ■ 877-616-CELL (2355)
orders@cellsignal.com

Support ■ 877-678-TECH (8324)
info@cellsignal.com

Web ■ www.cellsignal.com

New 03/13

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications
W, IP
Endogenous

Species Cross-Reactivity*
H, R

Molecular Wt.
81 kDa

Source
Rabbit**

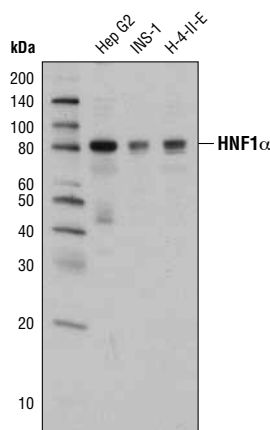
Background: Hepatocyte nuclear factor 1 α (HNF1 α , also known as TCF1 or MODY3) is a transcription factor that plays a role in the tissue-specific regulation of liver gene expression (1). Research has shown that heterogeneous mutations of HNF1 α are linked to maturity onset diabetes of the young (MODY) (2). Recent studies indicate that increased concentrations of free fatty acids can reduce the expression of FoxA2/HNF3 β and HNF1 α in pancreatic β -cells and lead to their nuclear exclusion, resulting in symptoms of several metabolic syndromes (3).

Specificity/Sensitivity: HNF1 α Antibody recognizes endogenous levels of total HNF1 α protein.

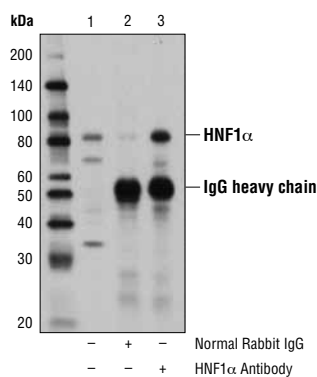
Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human HNF1 α protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

- (1) Yamagata, K. et al. (1996) *Nature* 384, 455-8.
- (2) Lehto, M. et al. (1997) *J Clin Invest* 99, 582-91.
- (3) Ohtsubo, K. et al. (2011) *Nat Med* 17, 1067-75.



Western blot analysis of extracts from various cell lines using HNF1 α Antibody.



Immunoprecipitation of HNF1 α from extracts of HepG2 cells, using Normal Rabbit IgG #2729 (lane 2) or HNF1 α Antibody (lane 3). Lane 1 is 10% input. Western blot analysis was performed using HNF1 α Antibody.

Entrez-Gene ID #6927

Swiss-Prot Acc. #P20823

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

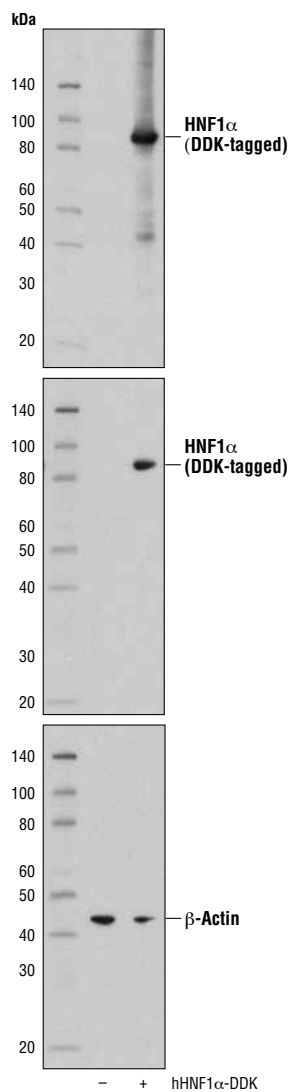
Western blotting 1:1000
Immunoprecipitation 1:50

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.



Western blot analysis of extracts from 293 cells, mock transfected (-) or transfected with a construct expressing DDK-tagged full-length human HNF1α (hHNF1α-DDK; +), using HNF1α Antibody (upper), DYKDDDDK Tag (9A3) Mouse mAb #8146 (middle), or β-Actin (D6A8) Rabbit mAb #8457 (lower).