

#3113 Store at -20°C

HNF4 α (C11F12) Rabbit mAb



✓ 100 μ l
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IHC-P, IF-IC Endogenous	H	52 kDa	Rabbit IgG**

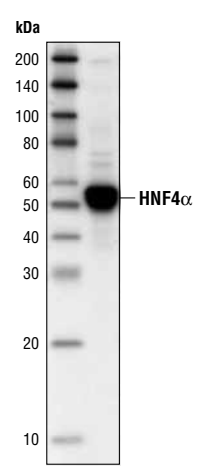
Background: Hepatocyte nuclear factor 4 α (HNF4 α) is a transcription factor that belongs to the steroid hormone receptor superfamily and is enriched in liver (1). HNF4 α , in association with PGC-1 α , activates gluconeogenic genes such as phosphoenolpyruvate carboxykinase and glucose-6-phosphatase genes in fasted livers (2,3). Conditional knockout of the HNF4 α 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 HNF4 α have been linked to maturity-onset diabetes of the young (MODY) (5).

Specificity/Sensitivity: HNF4 α (C11F12) Rabbit mAb detects endogenous levels of total HNF4 α protein.

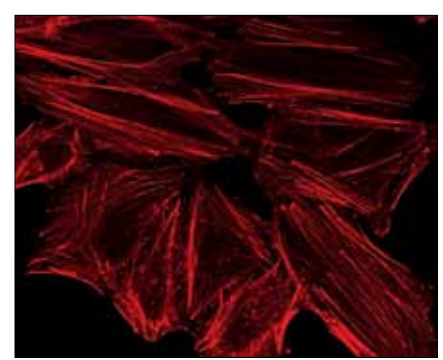
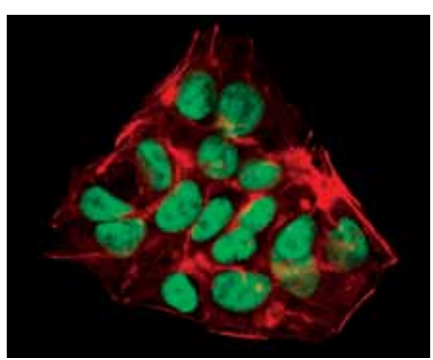
Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of human HNF4 α .

Background References:

- (1) Sladek, F.M. et al. (1990) *Genes Dev.* 4, 2353–2365.
- (2) Yoon, J.C. et al. (2001) *Nature* 413, 131–138.
- (3) Rhee, J. et al. (2003) *Proc. Natl. Acad. Sci. USA* 100, 4012–4017.
- (4) Hayhurst, G.P. et al. (2001) *Mol. Cell Biol.* 21, 1393–1403.
- (5) Ellard, S. and Colclough, K. (2006) *Hum. Mutat.* 27, 854–869.



Western blot analysis of extract from HepG2 cells using HNF4 α (C11F12) Rabbit mAb.



Confocal immunofluorescent analysis of HepG2 (left) and HeLa cells (right) using HNF4 α (C11F12) Rabbit mAb (green). Actin filaments have been labeled with Alexa Fluor[®] 555 phalloidin (red).

Entrez-Gene ID # 3172
Swiss-Prot Acc. # P41235

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. 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
Immunohistochemistry (Paraffin)	1:200†
Unmasking buffer:	Citrate
Antibody diluent:	SignalStain [®] Antibody Diluent #8112
Detection reagent:	SignalStain [®] Boost (HRP, Rabbit) #8114
†Optimal IHC dilutions determined using SignalStain [®] Boost IHC Detection Reagent.	
Immunofluorescence (IF-IC)	1:6000

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

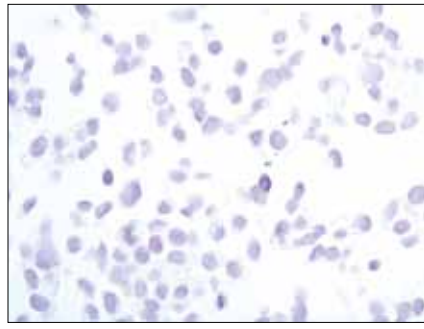
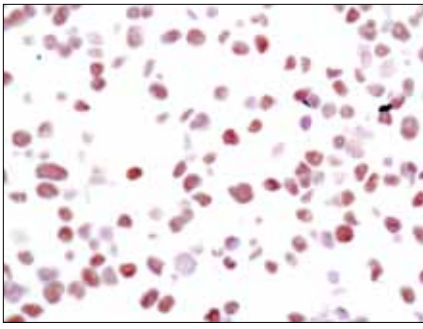
Please visit www.cellsignal.com for a complete listing of recommended companion products.

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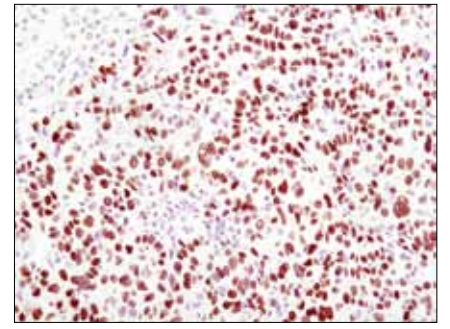
IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

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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.



Immunohistochemical analysis of paraffin-embedded HepG2 cells in the presence of control peptide (left) or antigen specific peptide (right) using HNF4 α (C11F12) Rabbit mAb.



Immunohistochemical analysis of paraffin embedded human hepatocellular carcinoma using HNF4 α (C11F12) Rabbit mAb.