

#3117 Store at -20°C

HNF4 α (G162) Antibody

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.

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

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W	H	52 kDa	Rabbit**
Endogenous			

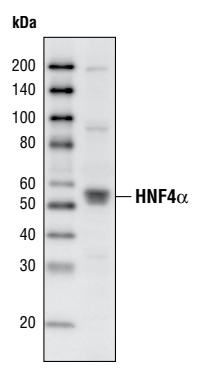
Background: Hepatocyte nuclear factor 4 α (HNF4 α) is a transcription factor that belongs to the steroid hormone receptor superfamily and is enriched in the liver (1). HNF4 α , by association with PGC-1 α , activates gluconeogenic genes such as phosphoenolpyruvate carboxykinase and glucose-6-phosphatase genes in fasted liver (2,3). In addition, conditional knockout of HNF4 α gene in the mouse liver destroys lipid homeostasis and leads to lipid accumulation in the liver and a reduction of cholesterol and triglyceride levels in the serum (4). Furthermore, mutations in HNF4 α have been linked to the maturity-onset diabetes of the young (MODY) (5).

Specificity/Sensitivity: HNF4 α (G162) Antibody detects endogenous levels of total HNF4 α protein.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly162 of human HNF4 α . Antibodies are purified by protein A and peptide affinity chromatography.

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 extracts from HepG2 cells, using HNF4 α (G162) Antibody.

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

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

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

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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.