



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

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at -20C
#3113

HNF4α (C11F12) Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IHC-P, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 52	Source/Isotype: Rabbit IgG	UniProt ID: #P41235	Entrez-Gene Id: 3172
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Product Usage Information

Application

Western Blotting
Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:100 - 1:400
1:1500 - 1:6000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #31059.

Specificity/Sensitivity

HNF4α (C11F12) Rabbit mAb detects endogenous levels of total HNF4α protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser461 of human HNF4α.

Background

Hepatocyte nuclear factor 4α (HNF4α) is a transcription factor that belongs to the steroid hormone receptor superfamily and is enriched in liver (1). HNF4α, in association with PGC-1α, activates gluconeogenic genes such as phosphoenolpyruvate carboxykinase and glucose-6-phosphatase genes in fasted livers (2,3). Conditional knockout of the HNF4α 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 HNF4α have been linked to maturity-onset diabetes of the young (MODY) (5).

Background References

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

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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