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HNF4α (G162) Antibody

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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 52	Source/Isotype: Rabbit	UniProt ID: #P41235	Entrez-Gene Id: 3172
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	HNF4α (G162) Antibody detects endogenous levels of total HNF4α protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly162 of human HNF4α. Antibodies are purified by protein A and peptide affinity chromatography.	
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	<ol style="list-style-type: none"> Sladek, F.M. et al. (1990) <i>Genes Dev.</i> 4, 2353-2365. Yoon, J.C. et al. (2001) <i>Nature</i> 413, 131-138. Rhee, J. et al. (2003) <i>Proc. Natl. Acad. Sci. USA</i> 100, 4012-4017. Hayhurst, G.P. et al. (2001) <i>Mol. Cell Biol.</i> 21, 1393-1403. Ellard, S. and Colclough, K. (2006) <i>Hum. Mutat.</i> 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
Cross-Reactivity Key	H: Human
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