

HNF1α Antibody

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

Applications: W, IP	Reactivity: H R	Sensitivity: Endogenous	MW (kDa): 81	Source/Isotype: Rabbit	UniProt ID: #P20823	Entrez-Gene Id: 6927
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

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

HNF1α Antibody recognizes endogenous levels of total HNF1α protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human HNF1α protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Hepatocyte nuclear factor 1α (HNF1α, 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 HNF1α 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/HNF3β and HNF1α in pancreatic β-cells and lead to their nuclear exclusion, resulting in symptoms of several metabolic syndromes (3).

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.

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 **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **R:** Rat

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