Revision 1

Store at -20C

#25401

HNF1α (E3H9V) Rabbit mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IF-IC	H	Endogenous	81	Rabbit IgG	#P20823	6927

Product Usage Information

Application	Dilution
Immunofluorescence (Immunocytochemistry)	1:400 - 1:1600

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.*

Specificity/Sensitivity

HNF1α (E3H9V) Rabbit mAb recognizes endogenous levels of total HNF1α protein. This antibody does not cross-react with HNF1β protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala298 of human HNF1α protein.

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).

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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