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HNF1A Antibody (Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2122a

Product Information

Application	WB, E
Primary Accession	P20823
Other Accession	P15257, P22361, NP_000536.4
Reactivity	Human
Predicted	Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	622CT11.9.6
Calculated MW	67386
Antigen Region	177-205

Additional Information

Gene ID	6927
Other Names	Hepatocyte nuclear factor 1-alpha, HNF-1-alpha, HNF-1A, Liver-specific transcription factor LF-B1, LFB1, Transcription factor 1, TCF-1, HNF1A, TCF1
Target/Specificity	This HNF1A antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 177-205 amino acids from human HNF1A .
Dilution	WB~~1:100~1600 E~~Use at an assay dependent concentration.
Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	HNF1A Antibody (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HNF1A
Synonyms	TCF1
Function	Transcriptional activator that regulates the tissue specific expression of

	multiple genes, especially in pancreatic islet cells and in liver (By similarity). Binds to the inverted palindrome 5'- GTTAATNATTAAC-3' (PubMed:10966642, PubMed:12453420). Activates the transcription of CYP1A2, CYP2E1 and CYP3A11 (By similarity).
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108, ECO:0000269|PubMed:10966642, ECO:0000269|PubMed:38018242}
Tissue Location	Liver.

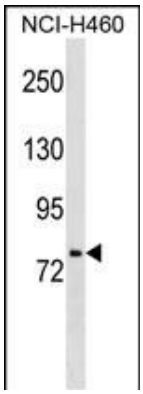
Background

The protein encoded by this gene is a transcription factor required for the expression of several liver-specific genes. The encoded protein functions as a homodimer and binds to the inverted palindrome 5'-GTTAATNATTAAC-3'. Defects in this gene are a cause of maturity onset diabetes of the young type 3 (MODY3) and also can result in the appearance of hepatic adenomas.

References

Jablonski, K.A., et al. Diabetes 59(10):2672-2681(2010)
Hu, M., et al. Pharmacogenet. Genomics 20(10):634-637(2010)
Speliotes, E.K., et al. Hepatology 52(3):904-912(2010)
Ley, S.H., et al. Cardiovasc Diabetol 9, 39 (2010) :
Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :

Images



HNF1A Antibody (Ascites)(Cat. #AM2122a) western blot analysis in NCI-H460 cell line lysates (35µg/lane).This demonstrates the HNF1A antibody detected the HNF1A protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.