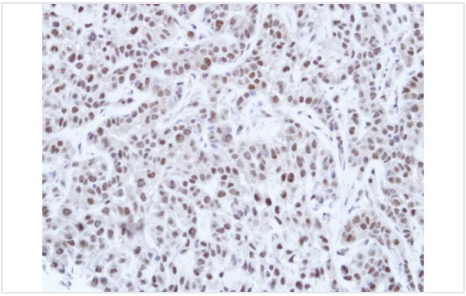
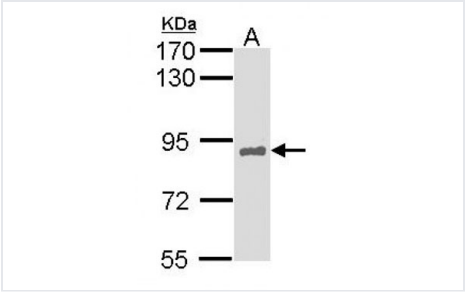
HNF1 alpha Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HNF1 alpha, Polyclonal Antibody
Full Product Name	HNF1 alpha antibody
Product Gene Name	anti-HNF1 alpha antibody
Product Synonym Names	Polyclonal HNF1 alpha; Anti-HNF1 alpha; HNF-1-alpha; MODY3; HNF1A; HNF-1A; albumin proximal factor; TCF1; TCF-1; LFB1; IDDM20; HNF1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Form/Format	Supplied as a concentrated soloution containing 0.1M Tris, 0.1M Glycine, 20% Glycerol (pH 7.0). 0.01% Thimerosal was added as a preservative.
Purity/Purification	HNF1 alpha antibody was purified by antigen-affinity chromatography
Concentration	1 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	67 kDa
OMIM	142330
3D Structure	ModBase 3D Structure for P20823
Cross-Reactivity	Human
Product Categories/Family for anti-HNF1 alpha antibody	DNA & RNA; Purified Polyclonal Antibodies
Applications Tested/Suitable for anti-HNF1 alpha antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-HNF1 alpha antibody	IHC-P: 1:100-1:250 WB: 1:500-1:3000
Related Product Information for anti-HNF1 alpha antibody	MBS835587 is an antibody targeting HNF1 alpha. Also known as HNF1 alpha antibody. Host: Rabbit. Affinity purified Rabbit polyclonal HNF1 alpha antibody
Other Notes	Small volumes of anti-HNF1 alpha antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC) of anti-HNF1 alpha antibody
Immunohistochemical staining of paraffin-embedded A549 Xenograft using HNF1 alpha antibody at a dilution of 1:100



Western Blot (WB) of anti-HNF1 alpha antibody
Western blot analysis of 30 ug of whole cell lysate (A: Hep G2) using a 7.5 % SDS PAGE gel and HNF1 alpha antibody at a dilution of 1:1000

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HNF1 alpha. It may not necessarily be applicable to this product.

NCBI GI #	256542297
NCBI GeneID	6927
NCBI Accession #	NP_000536.5
UniProt Primary Accession #	P20823
UniProt Secondary Accession #	Q2M3H2; Q99861; A5Z2R8; E0YMJ5; E0YMK0; E0YMK1; E2I9R4; E2I9R5; F5H5U3
UniProt Related Accession #	P20823
GenBank Nucleotide #	NM_000545.5
NCBI Official Full Name	hepatocyte nuclear factor 1-alpha isoform 2
NCBI Official Synonym Full Names	HNF1 homeobox A
NCBI Official Symbol	HNF1A
NCBI Official Synonym Symbols	HNF1; LFB1; TCF1; MODY3; TCF-1; HNF-1A; IDDM20
UniProt Protein Name	Hepatocyte nuclear factor 1-alpha
UniProt Synonym Protein Names	Liver-specific transcription factor LF-B1; LFB1; Transcription factor 1; TCF-1
UniProt Gene Name	HNF1A
UniProt Synonym Gene Names	TCF1; HNF-1-alpha; HNF-1A; LFB1; TCF-1
UniProt Entry Name	HNF1A_HUMAN
NCBI Protein Information	hepatocyte nuclear factor 1-alpha
NCBI Summary for HNF1 alpha	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. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]

UniProt Comments for HNF1 alpha	HNF1A: Transcriptional activator that regulates the tissue specific expression of multiple genes, especially in pancreatic islet cells and in liver. Required for the expression of several liver specific genes. Binds to the inverted palindrome 5'- GTTAATNATTAAC-3'. Defects in HNF1A are a cause of hepatic adenomas familial (HEPAF). Hepatic adenomas are rare benign liver tumors of presumable epithelial origin that develop in an otherwise normal liver. Hepatic adenomas may be single or multiple. They consist of sheets of well-differentiated hepatocytes that contain fat and glycogen and can produce bile. Bile ducts or portal areas are absent. Kupffer cells, if present, are reduced in number and are non-functional. Conditions associated with adenomas are insulin-dependent diabetes mellitus and glycogen storage diseases (types 1 and 3). Bi-allelic inactivation of HNF1A, whether sporadic or associated with MODY3, may be an early step in the development of some hepatocellular carcinomas. Defects in HNF1A are the cause of maturity-onset diabetes of the young type 3 (MODY3); also symbolized MODY-3. MODY is a form of diabetes that is characterized by an autosomal dominant mode of inheritance, onset in childhood or early adulthood (usually before 25 years of age), a primary defect in insulin secretion and frequent insulin-independence at the beginning of the disease. Defects in HNF1A are the cause of susceptibility to diabetes mellitus insulin-dependent type 20 (IDDM20). IDDM20 is a multifactorial disorder of glucose homeostasis that is characterized by susceptibility to ketoacidosis in the absence of insulin therapy. Clinical fetaures are polydipsia, polyphagia and polyuria which result from hyperglycemia-induced osmotic diuresis and secondary thirst. These features can result in long-term complications that affect the eyes, kidneys, nerves, and blood vessels. Belongs to the HNF1 homeobox family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 12q24.2 Cellular Component: nucleoplasm; protein complex; cytoplasm; nucleus Molecular Function: protein dimerization activity; protein binding; protein homodimerization activity; DNA binding; protein heterodimerization activity; transcription factor activity Biological Process: regulation of transcription from RNA polymerase II promoter; transcription, DNA-dependent; insulin secretion; glucose import; positive regulation of transcription, DNA-dependent; positive regulation of transcription from RNA polymerase II promoter; glucose homeostasis Disease: Diabetes Mellitus, Insulin-dependent, 20; Diabetes Mellitus, Insulin-dependent; Hepatic Adenomas, Familial; Maturity-onset Diabetes Of The Young, Type 3; Renal Cell Carcinoma, Nonpapillary; Diabetes Mellitus, Noninsulin-dependent
Research Articles on HNF1 alpha	**1.** Low prevalence of HNF1A mutations in italian families in diabetes clinic.
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