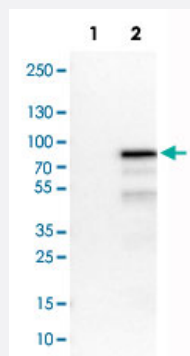


HNF1B monoclonal antibody, clone CL0374

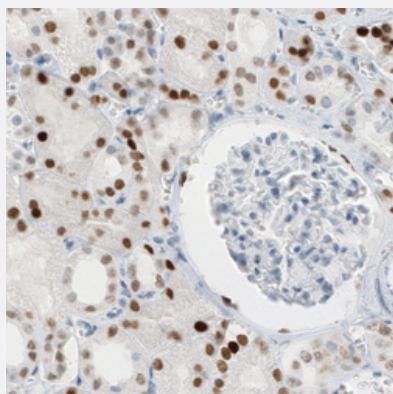
Catalog # MAB15622 Size 100 uL

Applications



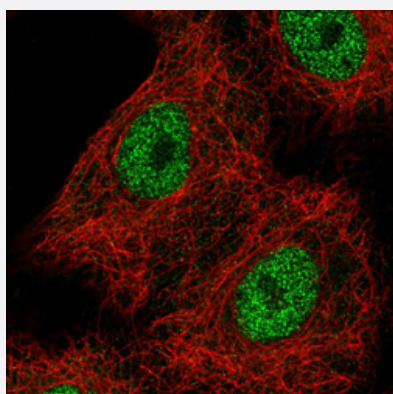
Western Blot (Transfected lysate)

Western Blot analysis of Lane 1: negative control (vector only transfected HEK293T cell lysate) and Lane 2: over-expression lysate (co-expressed with a C-terminal myc-DDK tag in mammalian HEK293T cells) with HNF1B monoclonal antibody, clone CL0374 (Cat # MAB15622).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human kidney with HNF1B monoclonal antibody, clone CL0374 (Cat # MAB15622) shows moderate to strong nuclear immunoreactivity in renal tubules.



Immunofluorescence

Immunofluorescent staining of A549 cells with HNF1B monoclonal antibody, clone CL0374 (Cat # MAB15622) (Green) shows spotty nuclear (without nucleoli) staining. Microtubule probes are visualized in red (where available).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human HNF1B.
Immunogen	Recombinant protein corresponding to human HNF1B.
Epitope	This antibody binds to an epitope located within the peptide sequence TPPIKELQA as determined by overlapping synthetic peptides.
Sequence	KEVLVQALEELLPSNFGVKLETLPSPGSGAEPDTKPVFHTLTNGHAKGRLSGDEGSEDGDDY DTPPIKELQALNTEEAQAEVDRMLSEDPWRAAKMIKGYMQQH
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein A purification
Isotype	IgG1
Recommend Usage	Immunofluorescence (1-4 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:500-1:1000) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

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Gene Info — HNF1B

Entrez GeneID [6928](#)

Protein Accession# [P35680](#)

Gene Name HNF1B

Gene Alias FJHN, HNF1beta, HNF2, HPC11, LF-B3, LFB3, MODY5, TCF2, VHNF1

Gene Description HNF1 homeobox B

Omim ID [125853](#) [137920](#) [189907](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a member of the homeodomain-containing superfamily of transcription factors . The protein binds to DNA as either a homodimer, or a heterodimer with the related protein hepatocyte nuclear factor 1-alpha. The gene has been shown to function in nephron development, and regulates development of the embryonic pancreas. Mutations in this gene result in renal cysts and diabetes syndrome and noninsulin-dependent diabetes mellitus, and expression of this gene is altered in some types of cancer. Multiple transcript variants encoding different isoforms have been found for this gene

Other Designations transcription factor 2|transcription factor 2, hepatic|transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor

Publication Reference

- [HNF1B expression regulates ECI2 gene expression, potentially serving a role in prostate cancer progression.](#)

Dan C, Zhang H, Zeng W, Huang L, Gong X, Li H, Yang E, Wang L, Yao Q.

Oncology Letters 2019 Jan; 17(1):1094.

Application: IHC, WB, Human, Prostate gland tissue

- [Investigation of HNF-1B as a diagnostic biomarker for pancreatic ductal adenocarcinoma.](#)

Yang MX, Coates RF, Ambaye A, Gardner JA, Zubarick R, Gao Y, Skelly J, Liu JG, Mino-Kenudson M.

Biomarker Research 2018 Jul; 6:25.

Application: IHC-P, Human, Pancreatic ductal adenocarcinoma

Pathway

- [Maturity onset diabetes of the young](#)

Disease

- [Birth Weight](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Diabetes](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Diabetic Neuropathies](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Glucose Metabolism Disorders](#)
- [HIV Infections](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Obesity](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)

- [Tobacco Use Disorder](#)
- [Vesico-Ureteral Reflux](#)
- [Wasting Syndrome](#)