

HNF1B Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA2687
Host	Mouse
Isotype	Mouse IgG1
Size	100μL, 50μL
Immunogen	Purified recombinant fragment of human HNF1B (AA: 23-132) expressed in E. Coli.
Mol wt	61.3kDa
Species reactivity	Human,Mouse,Rat
Clonality	Monoclonal
Recommended application	WB,IHC,ICC,FCM
Concentration	N/A
Full name	N/A
Synonyms	T2D;FJHN;HNF2;LFB3;RCAD;TCF2;HPC11;LF-B3;MODY5;TCF-2;VHNF1;ADTKD3;HNF-1B;HNF1beta;HNF-1-beta

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

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.

Recommended Dilution

WB: 1:500 - 1:2000

IHC-p: 1:200 - 1:1000

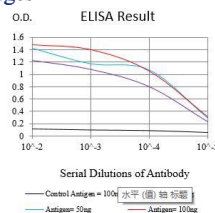
ICC: 1:50 - 1:200

FCM: 1:200 - 1:400

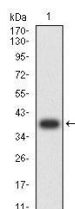
ELISA: 1:10000

Not yet tested in other applications.

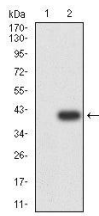
Images



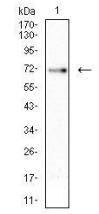
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



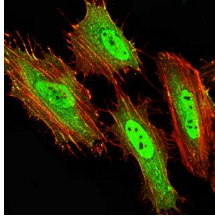
Western blot analysis using HNF1B mAb against human HNF1B (AA: 23-132) recombinant protein. (Expected MW is 38 kDa)



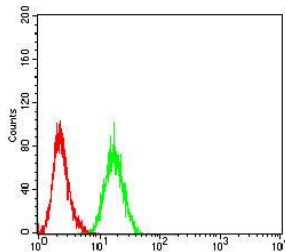
Western blot analysis using HNF1B mAb against HEK293-6e (1) and HNF1B (AA:23-132)-hIgGfc transfected HEK293-6e (2) cell lysate.



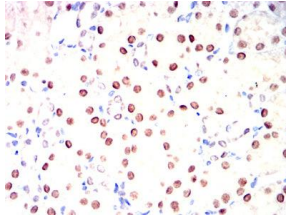
Western blot analysis using HNF1B mouse mAb against HeLa (1) cell lysate.



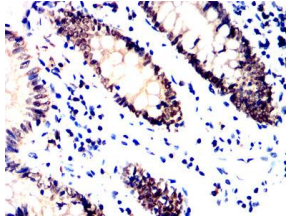
Immunofluorescence analysis of HeLa cells using HNF1B mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



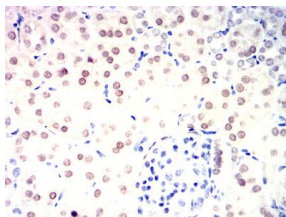
Flow cytometric analysis of PC-3 cells using HNF1B mouse mAb (green) and negative control (red).



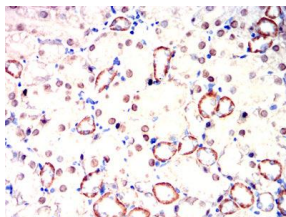
Immunohistochemical analysis of paraffin-embedded rat kidney tissues using HNF1B mouse mAb with DAB staining.



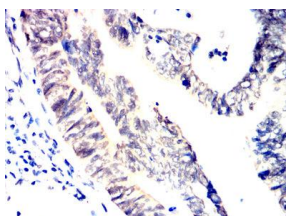
Immunohistochemical analysis of paraffin-embedded colon tissues using HNF1B mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded rabbit kidney tissues using HNF1B mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissues using HNF1B mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using HNF1B mouse mAb with DAB staining.

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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