

Datasheet for ABIN968855

anti-HNF1B antibody (AA 1-101)

3 Images

3 Publications



[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	HNF1B
Binding Specificity:	AA 1-101
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HNF1B antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Mouse HNF-1beta aa. 1-101
Clone:	25-HNF
Isotype:	IgG1
Cross-Reactivity:	Rat (Rattus), Human, Dog (Canine)
Characteristics:	<ol style="list-style-type: none"> 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target:	HNF1B
Alternative Name:	HNF-1beta (HNF1B Products)
Background:	<p>HNF's (Hepatocyte Nuclear Factor) are POU-homeodomain-containing liver enriched transcription factors that include HNF1-alpha, HNF1-beta, HNF-3alpha, HNF-3beta, HNF-4 and HNF-6. HNF-1 is expressed in liver, kidney, and intestine, while HNF-1beta is expressed highest in kidney with lower levels in intestine, lung, and liver. Both HNF-1 and HNF-1beta have short N-terminal alpha-helical segments that facilitate homodimerization (A-domain), a region related to POU-specific A-box (B-domain), and a homeodomain (C-domain). The HNF-1 and HNF-1beta homo- and hetero-dimers transactivate genes required for development of various tissues. Both transcription factors can bind the consensus HNF1 inverted palindromic sequence GTTAATNATTAAC. HNF-1 represses its own transcription and data suggests that there is coordinate regulation between HNF-1 and HNF-4. Although HNF-4 induces HNF-1 transcription, HNF-1 downregulates HNF-4 activity by binding to the AF2 region in the activation domain of HNF-4. Thus, HNF transcription factors may be involved in various aspects of the regulation of gene transcription throughout development.</p> <p>Synonyms: Hepatocyte Nuclear Factor-1beta</p>
Molecular Weight:	51 kDa
Pathways:	Hormone Transport , Stem Cell Maintenance , Tube Formation

Application Details

Comment:	Related Products: ABIN968547, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

Handling

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store undiluted at -20° C.

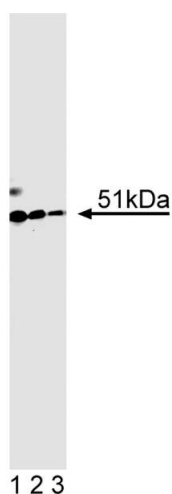
Publications

Product cited in: Soubt, Marksitzer, Menoud, Nagamine: "Role of tissue-specific transcription factor LFB3 in a cyclic AMP-responsive enhancer of the urokinase-type plasminogen activator gene in LLC-PK1 cells." in: **Molecular and cellular biology**, Vol. 18, Issue 8, pp. 4698-706, (1998) ([PubMed](#)).

Ringeisen, Rey-Campos, Yaniv: "The transactivation potential of variant hepatocyte nuclear factor 1 is modified by alternative splicing." in: **The Journal of biological chemistry**, Vol. 268, Issue 34, pp. 25706-11, (1994) ([PubMed](#)).

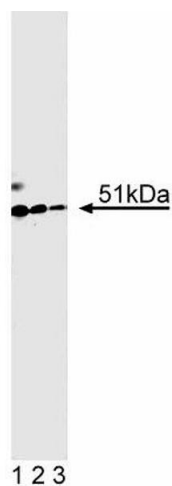
De Simone, De Magistris, Lazzaro, Gerstner, Monaci, Nicosia, Cortese: "LFB3, a heterodimer-forming homeoprotein of the LFB1 family, is expressed in specialized epithelia." in: **The EMBO journal**, Vol. 10, Issue 6, pp. 1435-43, (1991) ([PubMed](#)).

Images



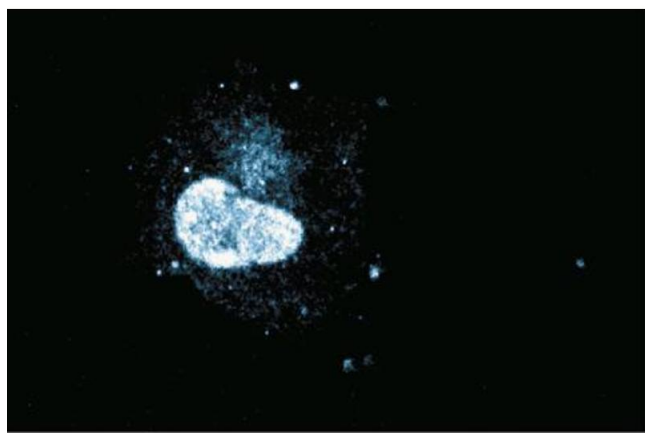
Western Blotting

Image 1.



Western Blotting

Image 2. Western blot analysis of HNF-1beta on a rat kidney lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti- HNF-1beta antibody.



Immunofluorescence

Image 3. Immunofluorescence staining of normal rat kidney.