abcam

Product datasheet

Anti-HNF-1B antibody [EPR18644-13] - BSA and Azide free ab238980

Recombinant RabMAb

1 Abreviews 9 Images

Overview

Product name	Anti-HNF-1B antibody [EPR18644-13] - BSA and Azide free
Description	Rabbit monoclonal [EPR18644-13] to HNF-1B - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human liver bile duct carcinoma tissue. Mouse and rat liver tissues
General notes	ab238980 is the carrier-free version of **ab213149**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR18644-13
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab238980 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★☆ (1)	Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

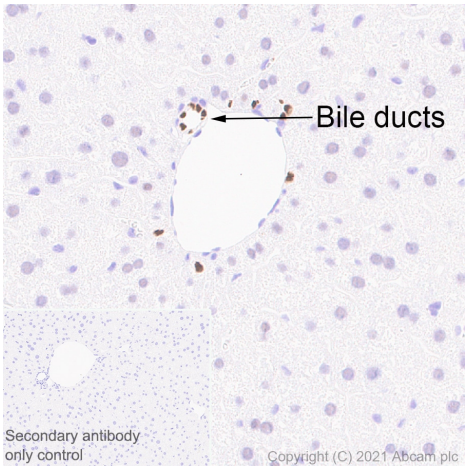
Function Transcription factor, probably binds to the inverted palindrome 5'-GTTAATNATTAAC-3'.

Involvement in disease Defects in HNF1B are the cause of renal cysts and diabetes syndrome (RCAD) [MIM:137920]; also called maturity-onset diabetes of the young type 5 (MODY5) or familial hypoplastic glomerulocystic kidney disease (GCKD). RCAD is an autosomal dominant disorder comprising non-diabetic renal disease resulting from abnormal renal development, and diabetes, which in some cases occurs earlier than age 25 years and is thus consistent with a diagnosis of maturity-onset diabetes of the young (MODY5). The renal disease is highly variable and includes renal cysts, glomerular tufts, aberrant nephrogenesis, primitive tubules, irregular collecting systems, oligomeganephronia, enlarged renal pelves, abnormal calyces, small kidney, single kidney, horseshoe kidney, and hyperuricemic nephropathy.
Defects in HNF1B may be rare genetic risk factor contributing to the development of non-insulin-dependent diabetes mellitus (NIDDM) [MIM:125853]. NIDDM is characterized by an autosomal dominant mode of inheritance, onset during adulthood and insulin resistance.
Defects in HNF1B may be a cause of susceptibility to prostate cancer hereditary type 11 (HPC11) [MIM:611955]. It is a condition associated with familial predisposition to cancer of the prostate. Most prostate cancers are adenocarcinomas that develop in the acini of the prostatic ducts. Other rare histopathologic types of prostate cancer that occur in approximately 5% of patients include small cell carcinoma, mucinous carcinoma, prostatic ductal carcinoma, transitional cell carcinoma, squamous cell carcinoma, basal cell carcinoma, adenoid cystic carcinoma (basaloid), signet-ring cell carcinoma and neuroendocrine carcinoma.

Sequence similarities Belongs to the HNF1 homeobox family.
Contains 1 homeobox DNA-binding domain.

Cellular localization Nucleus.

Images



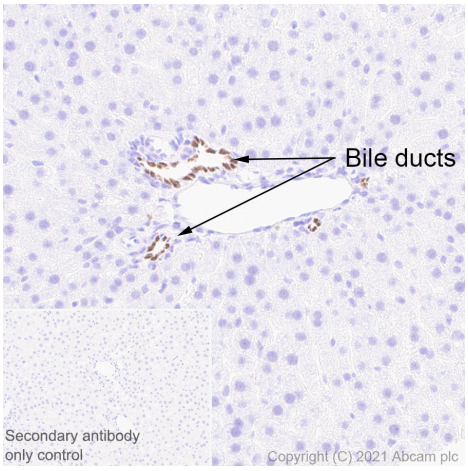
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HNF-1B antibody [EPR18644-13] - BSA and Azide free (ab238980)

This data was developed using **ab213149**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling HNF-1B with **ab213149** at 1/4000 dilution, followed by LeicaDS9800 (Bond ™ Polymer Refine Detection). Nuclear staining on mouse liver bile duct is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



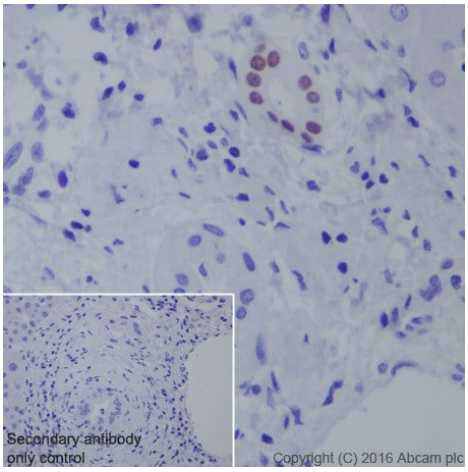
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HNF-1B antibody [EPR18644-13] - BSA and Azide free (ab238980)

This data was developed using **ab213149**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded rat liver tissue labeling HNF-1B with **ab213149** at 1/4000 dilution, followed by LeicaDS9800 (Bond ™ Polymer Refine Detection). Nuclear staining on rat liver bile duct is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



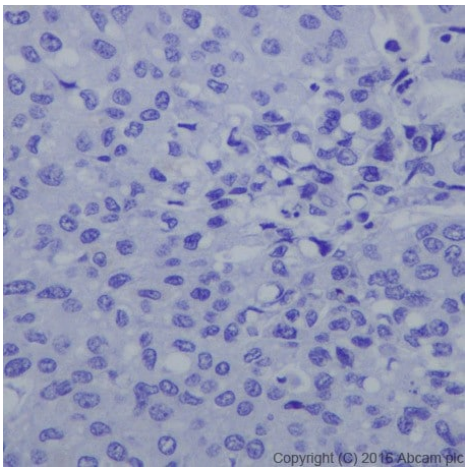
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HNF-1B antibody [EPR18644-13] - BSA and Azide free (ab238980)

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling HNF-1B with **ab213149** at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution. Nuclear staining on human liver bile duct is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab213149**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

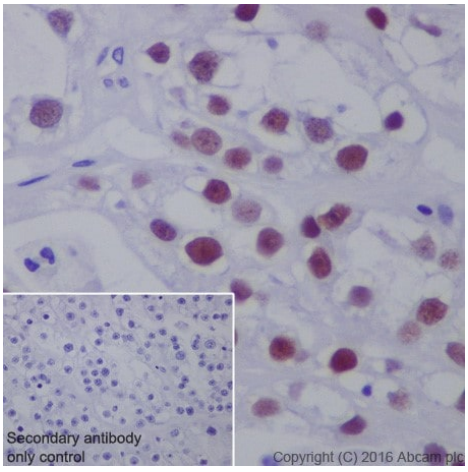


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HNF-1B antibody [EPR18644-13] - BSA and Azide free (ab238980)

Immunohistochemical analysis of paraffin-embedded human hepatocellular carcinoma tissue labeling HNF-1B with **ab213149** at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution. Negative staining on human hepatocellular carcinoma. Counter stained with Hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab213149**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



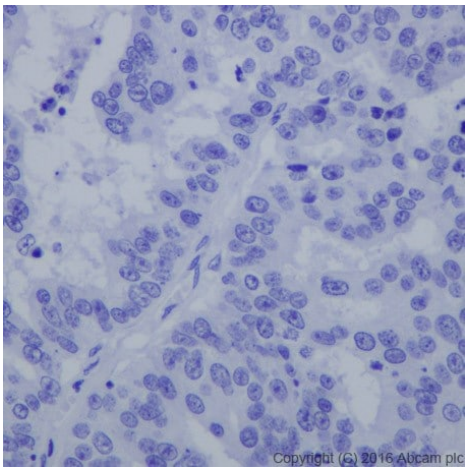
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HNF-1B antibody [EPR18644-13] - BSA and Azide free (ab238980)

Immunohistochemical analysis of paraffin-embedded human ovarian clear cell carcinoma tissue labeling HNF-1B with **ab213149** at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution. Nuclear staining on human ovarian clear cell carcinoma is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab213149**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

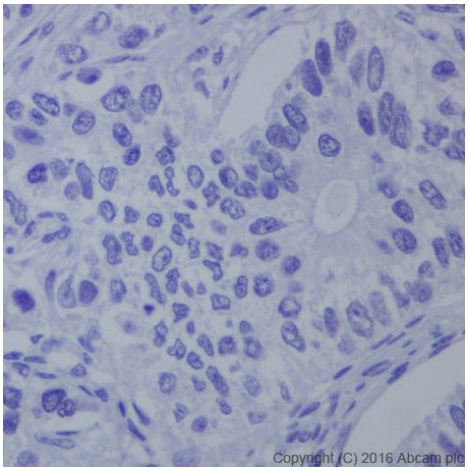


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HNF-1B antibody [EPR18644-13] - BSA and Azide free (ab238980)

Immunohistochemical analysis of paraffin-embedded human serous ovarian carcinoma tissue labeling HNF-1B with **ab213149** at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution. Negative staining on human serous ovarian carcinoma. Counter stained with Hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab213149**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

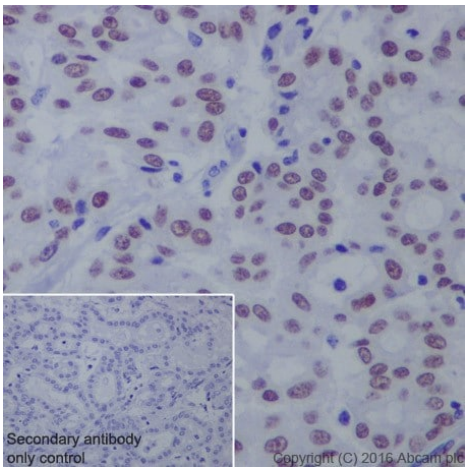


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HNF-1B antibody [EPR18644-13] - BSA and Azide free (ab238980)

Immunohistochemical analysis of paraffin-embedded human endometrioid ovary adenocarcinoma tissue labeling HNF-1B with **ab213149** at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution. Negative staining on human endometrioid ovary adenocarcinoma. Counter stained with Hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab213149**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



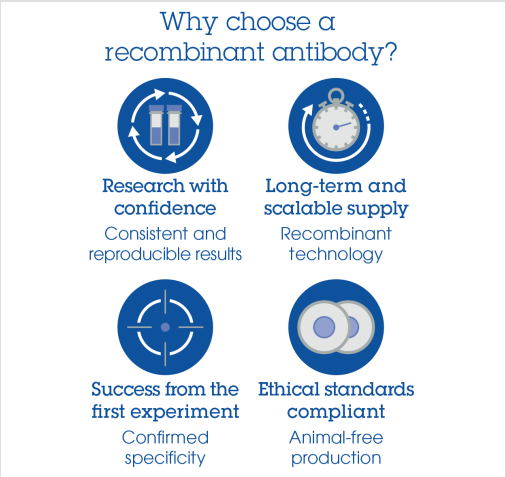
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HNF-1B antibody [EPR18644-13] - BSA and Azide free (ab238980)

Immunohistochemical analysis of paraffin-embedded human liver bile duct carcinoma tissue labeling HNF-1B with **ab213149** at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution. Nuclear staining on human liver bile duct carcinoma is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab213149**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



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