

Anti-HNF-4-alpha antibody [EPR16786] - N-terminal ab199431

リコンビナント RabMAb

2 References [画像数 7](#)

製品の概要

製品名	Anti-HNF-4-alpha antibody [EPR16786] - N-terminal
製品の詳細	Rabbit monoclonal [EPR16786] to HNF-4-alpha - N-terminal
由来種	Rabbit
アプリケーション	適用あり: ChIC/CUT&RUN-seq, ChIP-sequencing, WB, ICC/IF, IHC-P
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Mouse and rat liver lysates. Human fetal liver and Human stomach lysates. HepG2 whole cell lysate. IHC-P: Human hepatocellular carcinoma tissue. ICC/IF: HepG2 cells. ChIP-seq: HepG2 cells. ChIC/CUT&RUN-Seq: HepG2 cells.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR16786

アプリケーション

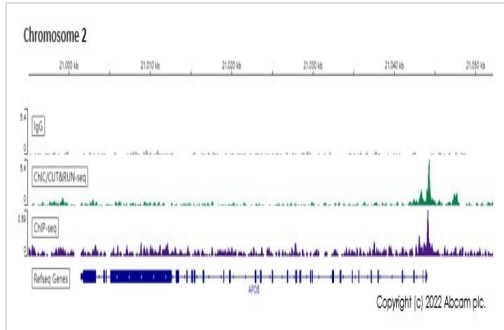
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab199431の使用に適用されず**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ChIC/CUT&RUN-seq		Use at an assay dependent concentration. 5 µg
ChIP-sequencing		Use at an assay dependent concentration.
WB		1/10000. Detects a band of approximately 47, 53 kDa (predicted molecular weight: 53 kDa).
ICC/IF		1/250.
IHC-P		1/400. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

ターゲット情報

機能	Transcriptionally controlled transcription factor. Binds to DNA sites required for the transcription of alpha 1-antitrypsin, apolipoprotein CIII, transthyretin genes and HNF1-alpha. May be essential for development of the liver, kidney and intestine.
関連疾患	Defects in HNF4A are the cause of maturity-onset diabetes of the young type 1 (MODY1) [MIM:125850]; also symbolized MODY-1. 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.
配列類似性	Belongs to the nuclear hormone receptor family. NR2 subfamily. Contains 1 nuclear receptor DNA-binding domain.
翻訳後修飾	Phosphorylated on tyrosine residue(s); phosphorylation is important for its DNA-binding activity. Phosphorylation may directly or indirectly play a regulatory role in the subnuclear distribution.
細胞内局在	Nucleus.

画像



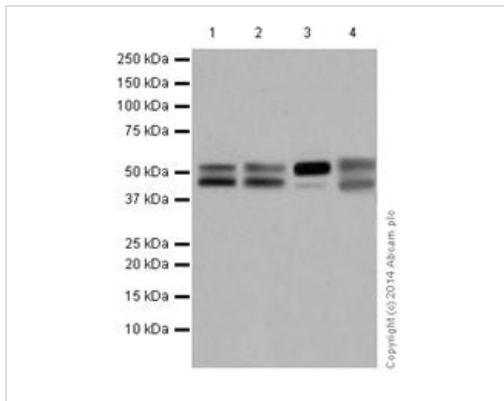
ChIC/CUT&RUN sequencing - Anti-HNF-4-alpha antibody [EPR16786] - N-terminal (ab199431)

ChIC/CUT&RUN was performed using a pAG-MNase at a final concentration of 700 ng/mL, 2×10^5 HepG2 (Human liver hepatocellular carcinoma cell line) cells and 5 μ g of ab199431 [EPR16786]. The resulting DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 10 million reads. The negative IgG control **ab172730** is also shown.

The ChIP data was conducted on chromatin prepared from HepG2 cells. ChIP was performed with 10^7 HepG2 cells and 8 μ g of ab199431 [EPR16786]. ChIP DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 30 million reads.

Additional screenshots of mapped reads can be downloaded [here](#).

The University of Geneva owns patents relevant to ChIC (Chromatin Immuno-Cleavage) methods.



Western blot - Anti-HNF-4-alpha antibody [EPR16786] - N-terminal (ab199431)

All lanes : Anti-HNF-4-alpha antibody [EPR16786] - N-terminal (ab199431) at 1/10000 dilution

Lane 1 : Mouse liver tissue lysate

Lane 2 : Rat liver tissue lysate

Lane 3 : Human fetal liver tissue lysate

Lane 4 : Human stomach tissue lysate

Lysates/proteins at 10 μ g per lane.

Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

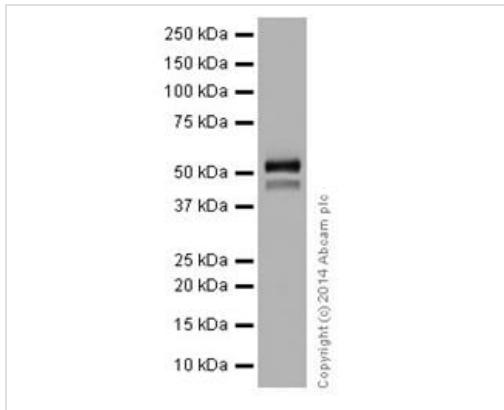
Predicted band size: 53 kDa

Observed band size: 47, 53 kDa

Exposure time: 3 minutes

This antibody can recognize 3 isoforms. The predicted MW are 53kDa, 52 kDa and 47kDa, respectively.

Blocking/dilution buffer: 5% NFD/MTBST.



Western blot - Anti-HNF-4-alpha antibody
[EPR16786] - N-terminal (ab199431)

Anti-HNF-4-alpha antibody [EPR16786] - N-terminal (ab199431) at
1/10000 dilution + HepG2 (Human liver hepatocellular carcinoma)
whole cell lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000
dilution

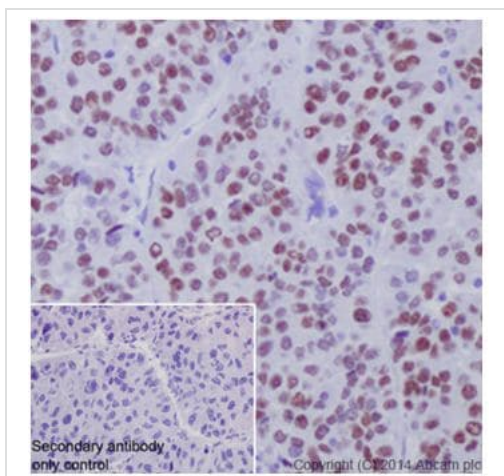
Predicted band size: 53 kDa

Observed band size: 47, 53 kDa

Exposure time: 1 minute

This antibody can recognize 3 isoforms. The predicted MW are
53KDa, 52 KDa and 47KDa, respectively.

Blocking/dilution buffer: 5% NFD/MTBST.

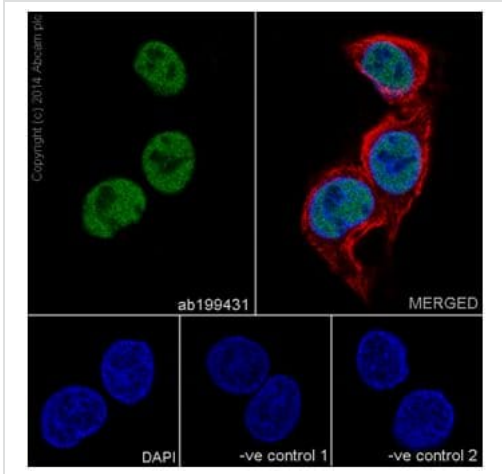


Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-HNF-4-alpha antibody
[EPR16786] - N-terminal (ab199431)

Immunohistochemical analysis of paraffin-embedded Human
hepatocellular carcinoma tissue labeling HNF-4-alpha with
ab199431 at 1/400 dilution followed by Goat Anti-Rabbit IgG H&L
(HRP) (**ab97051**) at 1/500 dilution. Nucleus staining on Human
hepatocellular carcinoma tissue is observed. Counter stained with
Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary
antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**).

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



Immunocytochemistry/ Immunofluorescence - Anti-HNF-4-alpha antibody [EPR16786] - N-terminal (ab199431)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HepG2 (Human liver hepatocellular carcinoma) cells labeling HNF-4-alpha with ab199431 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/500 dilution (green). Nuclear staining on HepG2 cell line is observed. The nuclear counterstain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).

The negative controls are as follows:-

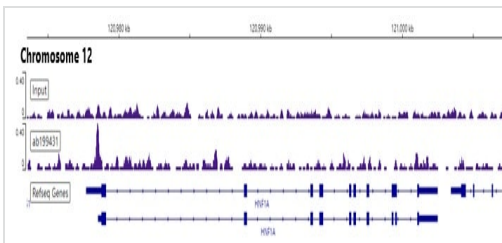
-ve control 1 - ab199431 at 1/250 dilution followed by **ab150120**

(AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.

-ve control 2. - **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution

followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG

H&L) at 1/500 dilution.



ChIP-sequencing - Anti-HNF-4-alpha antibody [EPR16786] - N-terminal (ab199431)

Chromatin was prepared from HepG2 (Human liver hepatocellular carcinoma cell line) cells. ChIP was performed with 10^7 HepG2 cells and 8 μ g of ab199431 [EPR16786]. ChIP DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 30 million reads.

Additional screenshots of mapped reads can be downloaded [here](#).

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-HNF-4-alpha antibody [EPR16786] - N-terminal
(ab199431)

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