

Anti-HNF-4-alpha antibody [EPR16885-99] ab201460

重组 RabMAb

★★★★★ **1 Abreviews** **14 References** **13 图像**

概述

产品名称	Anti-HNF-4-alpha抗体[EPR16885-99]
描述	兔单克隆抗体[EPR16885-99] to HNF-4-alpha
宿主	Rabbit
特异性	Mouse species are recommended based on IHC result. This antibody is unsuitable to be used in WB on mouse.
经测试应用	适用于: Flow Cyt (Intra), WB, IHC-P, ICC/IF, ChIC/CUT&RUN-seq
种属反应性	与反应: Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HepG2 and Caco-2 whole cell lysates; Human colon and fetal kidney lysates. IHC-P: Human colon, Human liver, mouse liver and rat colon tissues. ICC/IF: HepG2 and HT-29 cells. ChIC/CUT&RUN-Seq: HepG2 cells.
常规说明	<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>

性能

形式	Liquid
存放说明	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.
存储溶液	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆

克隆编号EPR16885-99

同种型IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab201460于以下的经测试应用

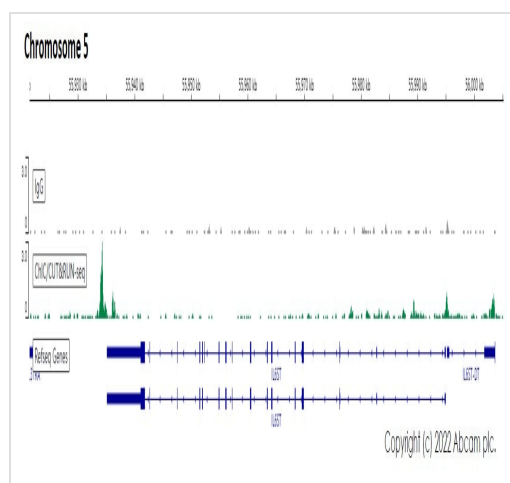
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/1000. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000. Detects a band of approximately 53 kDa (predicted molecular weight: 53 kDa).
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/2000.
ChIC/CUT&RUN-seq		Use at an assay dependent concentration. 5 µg

靶标

功能	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.
疾病相关	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.
序列相似性	Belongs to the nuclear hormone receptor family. NR2 subfamily. Contains 1 nuclear receptor DNA-binding domain.
翻译后修饰	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.
细胞定位	Nucleus.

图片

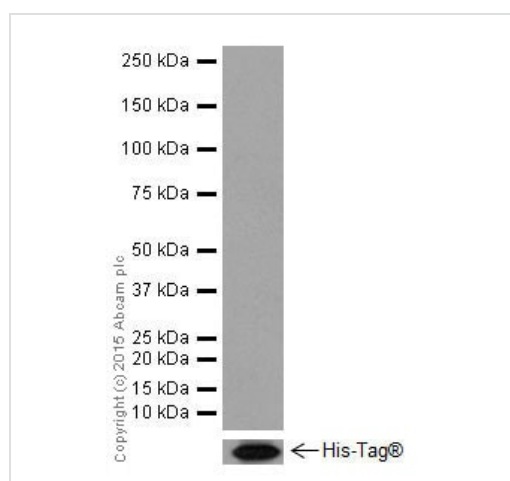


ChIC/CUT&RUN sequencing - Anti-HNF-4-alpha antibody [EPR16885-99] (ab201460)

ChIC/CUT&RUN was performed using a pAG-MNase at a final concentration of 700 ng/mL, 2.5×10^5 HepG2 (Human liver hepatocellular carcinoma cell line) cells and 5 µg of ab201460 [EPR16885-99]. 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.

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 [EPR16885-99] (ab201460)

Anti-HNF-4-alpha antibody [EPR16885-99] (ab201460) at 1/1000 dilution + Full length mouse HNF-4-gamma recombinant protein at 10 µg

Secondary

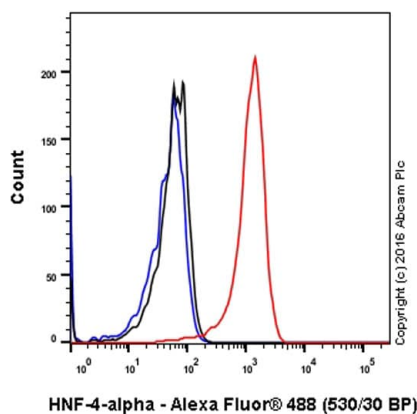
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 53 kDa

Exposure time: 3 minutes

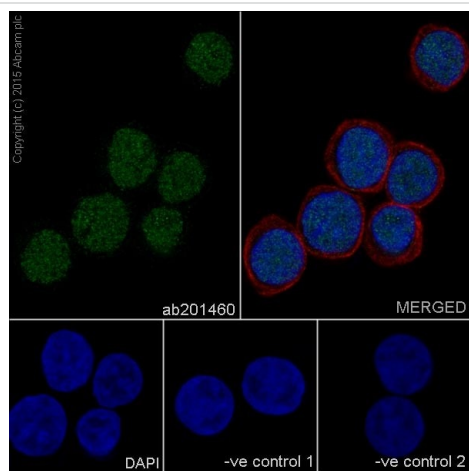
Blocking/Dilution buffer: 5% NFDm/TBST.

Based on sequence analysis of the immunogen, ab201460 shares 72% homology with HNF4 gamma. The levels of XR were tested in the accompanying recombinant protein, WB experiment.



Flow Cytometry (Intracellular) - Anti-HNF-4-alpha antibody [EPR16885-99] (ab201460)

Intracellular Flow Cytometry analysis of HepG2 (human hepatocellular carcinoma) labelling CDKN2A/p16INK4a with purified ab201460 at 1/1000 (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Alexa Fluor® 488 goat anti-rabbit IgG (1/2000) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.



Immunocytochemistry/ Immunofluorescence - Anti-HNF-4-alpha antibody [EPR16885-99] (ab201460)

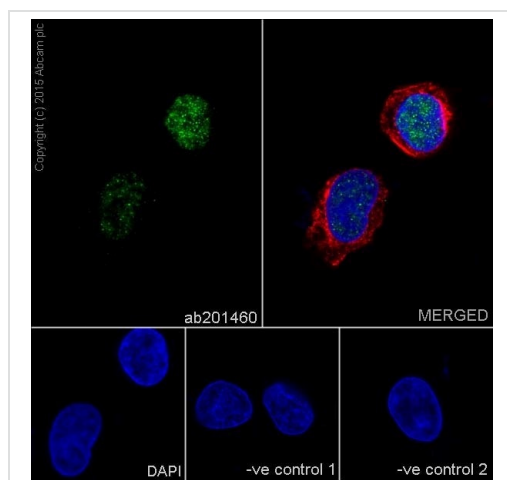
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton-X100 permeabilized HT-29 (Human colorectal adenocarcinoma cells) cells labeling HNF-4-alpha with ab201460 at 1/2000 dilution, followed by AlexaFluor®488 Goat anti-Rabbit secondary antibody (**ab150077**) at 1/500 dilution (green).

Confocal image showing nuclear staining on HT-29 cell line.

The nuclear counter stain is DAPI (blue). Tubulin is stained with **ab7291** anti-Tubulin (mouse mAb) at 1/1000 dilution, followed by AlexaFluor®594 Goat anti-Mouse secondary antibody (**ab150120**) at 1/500 dilution (red).

-ve control 1: ab201460 at 1/2000 dilution followed by AlexaFluor®594 Goat anti-Mouse secondary antibody (**ab150120**) at 1/500 dilution.

-ve control 2: **ab7291** anti-Tubulin (mouse mAb) at 1/1000 dilution, followed by AlexaFluor®488 Goat anti-Rabbit secondary antibody (**ab150077**) at 1/500 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-HNF-4-alpha antibody [EPR16885-99] (ab201460)

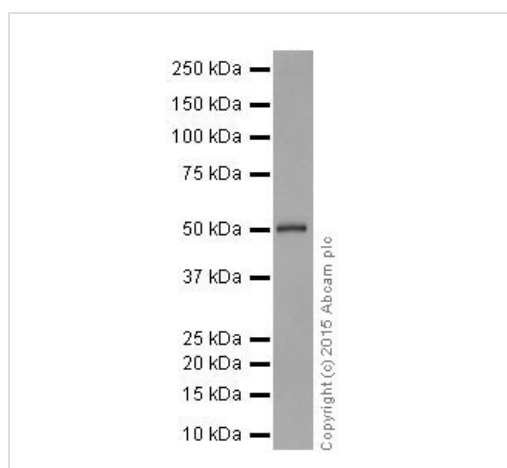
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton-X100 permeabilized HepG2 (Human liver hepatocellular carcinoma) cells labeling HNF-4-alpha with ab201460 at 1/2000 dilution, followed by AlexaFluor®488 Goat anti-Rabbit secondary antibody (**ab150077**) at 1/500 dilution (green).

Confocal image showing nuclear staining on HT-29 cell line.

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-ve control 1: ab201460 at 1/2000 dilution followed by AlexaFluor®594 Goat anti-Mouse secondary antibody (**ab150120**) at 1/500 dilution.

-ve control 2: **ab7291** anti-Tubulin (mouse mAb) at 1/1000 dilution, followed by AlexaFluor®488 Goat anti-Rabbit secondary antibody (**ab150077**) at 1/500 dilution.



Western blot - Anti-HNF-4-alpha antibody [EPR16885-99] (ab201460)

Anti-HNF-4-alpha antibody [EPR16885-99] (ab201460) at 1/10000 dilution + HepG2 (Human liver hepatocellular carcinoma) whole cell lysate at 10 µg

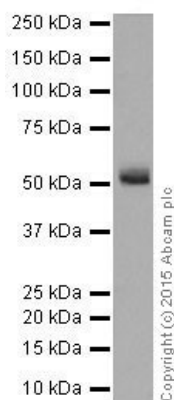
Secondary

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

Predicted band size: 53 kDa

Observed band size: 53 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-HNF-4-alpha antibody
[EPR16885-99] (ab201460)

Anti-HNF-4-alpha antibody [EPR16885-99] (ab201460) at 1/1000 dilution + Caco-2 (Human colorectal adenocarcinoma cells) whole cell lysate at 10 µg

Secondary

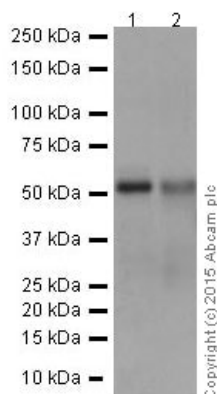
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 53 kDa

Observed band size: 53 kDa

Exposure time: 15 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-HNF-4-alpha antibody
[EPR16885-99] (ab201460)

All lanes : Anti-HNF-4-alpha antibody [EPR16885-99] (ab201460) at 1/1000 dilution

Lane 1 : Human colon lysate

Lane 2 : Human fetal kidney lysate

Lysates/proteins at 10 µg per lane.

Secondary

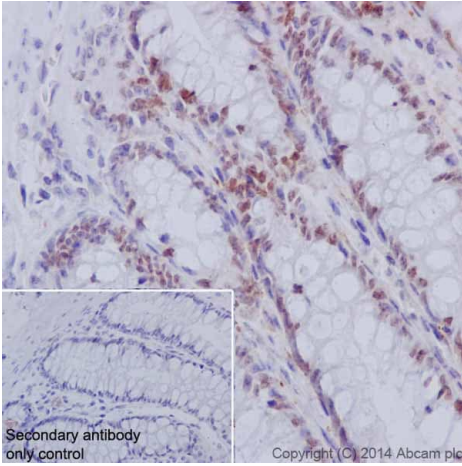
All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 53 kDa

Observed band size: 53 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDm/TBST.



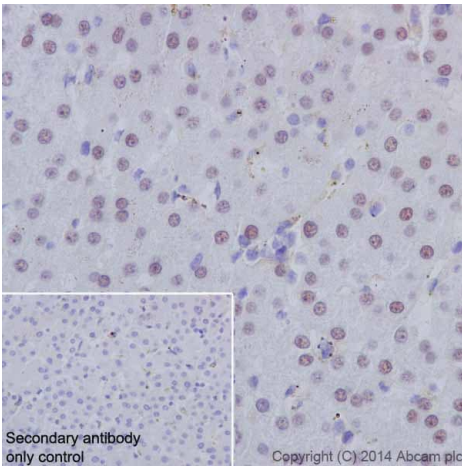
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HNF-4-alpha antibody [EPR16885-99] (ab201460)

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling HNF-4-alpha with ab201460 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution.

Nuclear staining on Human colon tissue 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) ([ab97051](#)) at 1/500 dilution.

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



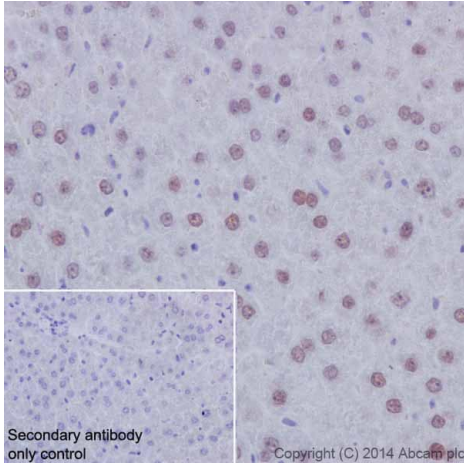
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HNF-4-alpha antibody [EPR16885-99] (ab201460)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling HNF-4-alpha with ab201460 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution.

Nuclear staining on Human liver tissue 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) ([ab97051](#)) at 1/500 dilution.

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



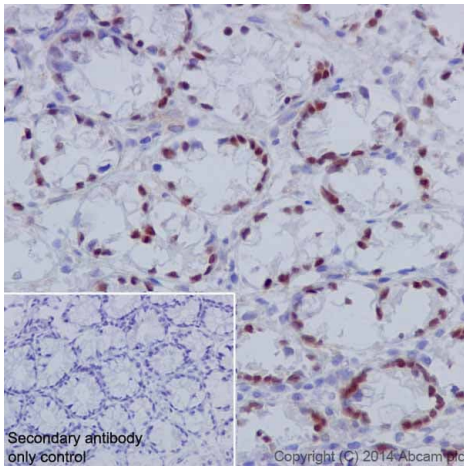
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HNF-4-alpha antibody [EPR16885-99] (ab201460)

Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling HNF-4-alpha with ab201460 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution.

Nuclear staining on mouse liver tissue 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) ([ab97051](#)) at 1/500 dilution.

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-4-alpha antibody [EPR16885-99] (ab201460)

Immunohistochemical analysis of paraffin-embedded Rat colon tissue labeling HNF-4-alpha with ab201460 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution.

Nuclear staining on rat colon tissue 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) ([ab97051](#)) at 1/500 dilution.

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

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 [EPR16885-99]
(ab201460)

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