abcam

Product datasheet

Anti-FOXA2 antibody [EPR4465] - ChIP Grade ab108396



重组 RabMAb

4 References 6 图像

概述

产品名称 Anti-FOXA2抗体[EPR4465] - ChIP Grade

描述 兔单克隆抗体[EPR4465] to FOXA2 - ChIP Grade

宿主 Rabbit

适用于: WB, ChIP, ICC/IF 经测试应用

种属反应性 与反应: Human

预测可用于: Mouse, Rat 🔷

免疫原 Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

阳性对照 HepG2 and Human colon cancer lysates.

常规说明 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**.

性能

形式 Liquid

存放说明 Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.

存储溶液 pH: 7.20

Preservative: 0.01% Sodium azide

Constituents: 40% Glycerol, 59% PBS, 0.05% BSA

纯度 Protein A purified

克隆 单克隆 **EPR4465** 克隆编号

同种型 ΙgG

The Abpromise guarantee

Abpromise™承诺保证使用ab108396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
WB		1/1000. Detects a band of approximately 52 kDa (predicted molecular weight: 48 kDa).
ChIP		Use at an assay dependent concentration.
ICC/IF		1/300 - 1/600.

靶标

功能

Transcription factor that is involved in embryonic development, establishment of tissue-specific gene expression and regulation of gene expression in differentiated tissues. Is thought to act as a 'pioneer' factor opening the compacted chromatin for other proteins through interactions with nucleosomal core histones and thereby replacing linker histones at target enhancer and/or promoter sites. Binds DNA with the consensus sequence 5'-[AC]A[AT]T[AG]TT[GT][AG] [CT]T[CT]-3' (By similarity). In embryonic development is required for notochord formation. Involved in the development of multiple endoderm-derived organ systems such as the liver, pancreas and lungs; FOXA1 and FOXA2 seem to have at least in part redundant roles. Originally discribed as a transcription activator for a number of liver genes such as AFP, albumin, tyrosine aminotransferase, PEPCK, etc. Interacts with the cis-acting regulatory regions of these genes. Involved in glucose homeostasis; regulates the expression of genes important for glucose sensing in pancreatic beta-cells and glucose homeostasis. Involved in regulation of fat metabolism. Binds to fibrinogen beta promoter and is involved in IL6-induced fibrinogen beta transcriptional activation.

序列相似性

Contains 1 fork-head DNA-binding domain.

翻译后修饰

Phosphorylation on Thr-156 abolishes binding to target promoters and subsequent transcription

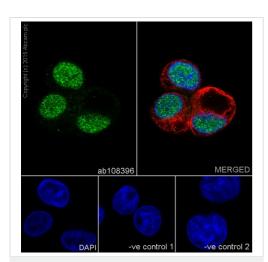
activation upon insulin stimulation.

细胞定位

Nucleus. Cytoplasm. Shuttles between the nucleus and cytoplasm in a CRM1-dependent manner

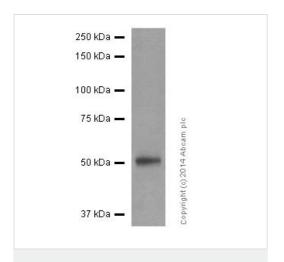
and in response to insulin signaling via AKT1 is exported from the nucleus.

图片



Immunocytochemistry/ Immunofluorescence - Anti-FOXA2 antibody [EPR4465] - ChIP Grade (ab108396)

Immunofluorescence staining of HepG2 cells with purified ab108396 at a working dilution of 1 in 300, counter-stained with DAPI. Tubulin was stained with mouse anti-tubulin at a dilution of 1/1000 (ab7291) and Alexa Fluor® 594 goat anti-mouse at a dilution of 1/500 (ab150120). The secondary antibody was ab150077 Alexa Fluor® 488 goat anti rabbit, used at a dilution of 1 in 500. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative controls are shown in the bottom middle and right hand panels - for the first negative control, purified ab108396 was used at a dilution of 1/200 followed by an Alexa Fluor® 555 goat anti-mouse antibody at a dilution of 1/500 and for the second negative control mouse primary antibody (ab7291) and anti-rabbit secondary antibody (ab15007) were used.



Western blot - Anti-FOXA2 antibody [EPR4465] - ChIP Grade (ab108396)

Anti-FOXA2 antibody [EPR4465] - ChIP Grade (ab108396) at 1/1000 dilution (purified) + HepG2 cell lysate at 10 μ g

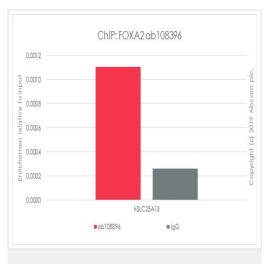
Secondary

HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 48 kDa **Observed band size:** 52 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



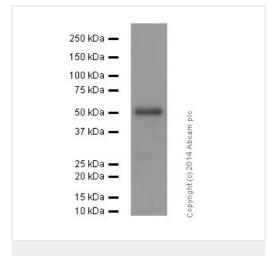
ChIP - Anti-FOXA2 antibody [EPR4465] - ChIP Grade (ab108396)

Chromatin was prepared from HepG2 cells according to the Abcam Dual X-ChIP protocol*. Cells were fixed with EGS for 30 minutes, then formaldehyde for 10 minutes.

The ChIP was performed with 25 μ g of chromatin, 5 μ g of ab108396 (red), and 20 μ l of Protein A/G sepharose beads. 5 μ g of rabbit normal lgG was added to the beads control (gray). The immunoprecipitated DNA was quantified by real time PCR (Sybr green approach).

Primers and probes are located in the first kb of the transcribed region.

*http://www.abcam.com/resources? keywords=X%20ChIP%20protocol



Western blot - Anti-FOXA2 antibody [EPR4465] - ChIP Grade (ab108396)

Anti-FOXA2 antibody [EPR4465] - ChIP Grade (ab108396) at 1/5000 dilution (purified) + SW480 cell lysate at 20 µg

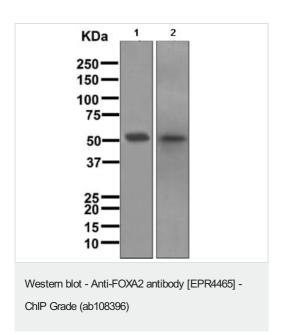
Secondary

HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 48 kDa **Observed band size:** 52 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



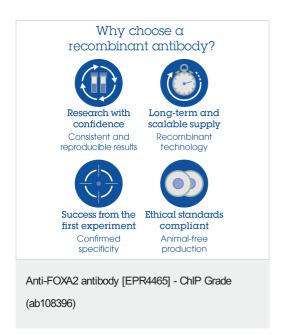
All lanes : Anti-FOXA2 antibody [EPR4465] - ChIP Grade (ab108396) at 1/1000 dilution

Lane 1: HepG2 lysate

Lane 2: Human colon cancer lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 48 kDa



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