


Anti-FOXA2 antibody [EPR4466] ab108422

リコンビナント **RabMAb**

★★★★☆ **10 Abreviews** **86 References** 画像数 10

製品の概要

製品名	Anti-FOXA2 antibody [EPR4466]
製品の詳細	Rabbit monoclonal [EPR4466] to FOXA2
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P, ICC/IF
種交差性	交差種: Mouse, Human 交差が予測される動物種: Rat 
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: Human colon cancer, fetal colon and mouse lung tissue lysates and HepG2 whole cell lysate (ab7900). IHC-P: Human hepatocellular carcinoma and mouse liver tissue; Human colon tissue; Mouse brain (substantia nigra) tissue. ICC/IF: HT-29 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. Stable for 12 months at -20°C.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名	EPR4466
アイソタイプ	IgG

アプリケーション

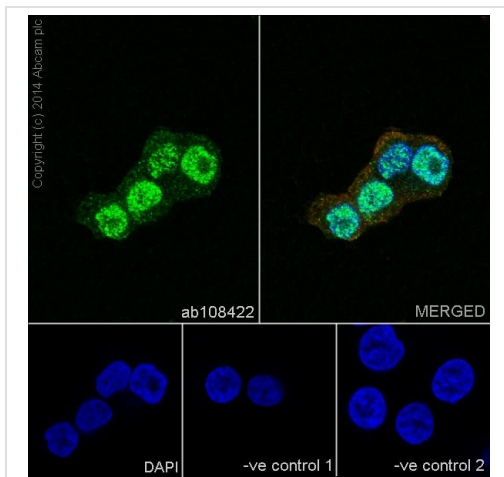
The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab108422の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000. Predicted molecular weight: 52 kDa. For unpurified use at 1/1000 - 1/10000.
IHC-P	★★★★★ (6)	1/500 - 1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols.</u> For unpurified use at 1/250 - 1/500.
ICC/IF		1/300. For unpurified use at 1/250 - 1/500.

ターゲット情報

機能	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 described 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.
配列類似性	Contains 1 fork-head DNA-binding domain.
翻訳後修飾	Phosphorylation on Thr-156 abolishes binding to target promoters and subsequent transcription activation upon insulin stimulation.
細胞内局在	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.

画像

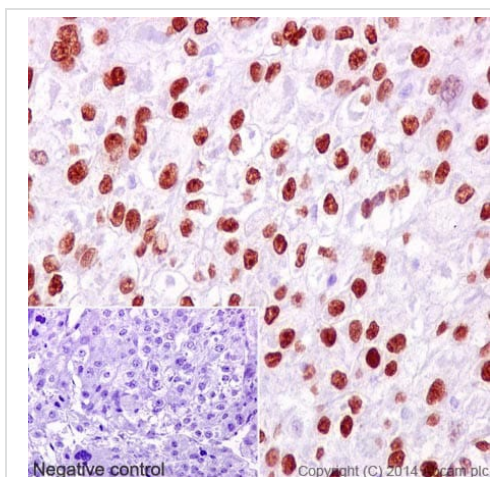


Immunocytochemistry/ Immunofluorescence - Anti-FOXA2 antibody [EPR4466] (ab108422)

Immunocytochemistry/Immunofluorescence analysis of HT-29 cells labelling FOXA2 with purified ab108422 at 1/300. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. **ab7291**, a mouse anti-tubulin (1/500) and **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500) were also used.

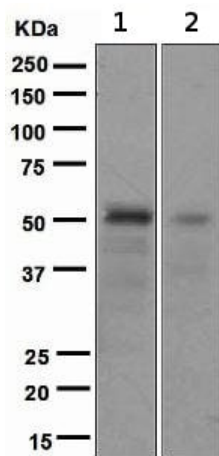
-ve control 1: primary antibody (1/300) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

-ve control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXA2 antibody [EPR4466] (ab108422)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human hepatocellular carcinoma tissue labelling FOXA2 with purified ab108422 at 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Western blot - Anti-FOXA2 antibody [EPR4466] (ab108422)

All lanes : Anti-FOXA2 antibody [EPR4466] (ab108422) at 1/1000 dilution (unpurified)

Lane 1 : Human fetal colon tissue lysate

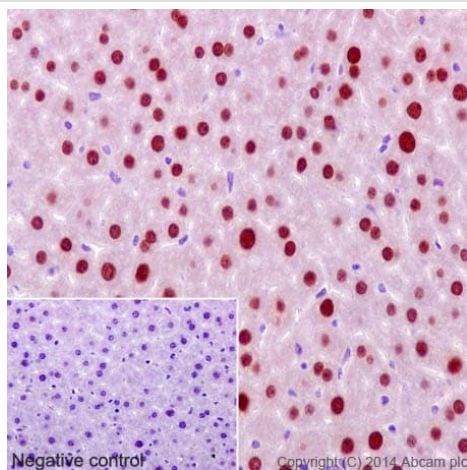
Lane 2 : HepG2 (human liver hepatocellular carcinoma cell line) cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

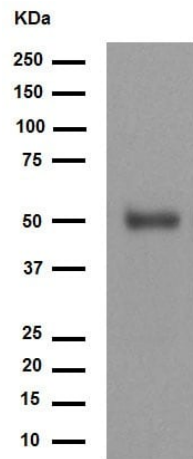
All lanes : HRP-conjugated goat anti-rabbit IgG

Predicted band size: 52 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXA2 antibody [EPR4466] (ab108422)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse liver tissue labelling FOXA2 with purified ab108422 at 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Western blot - Anti-FOXA2 antibody [EPR4466]
(ab108422)

Anti-FOXA2 antibody [EPR4466] (ab108422) at 1/10000 dilution
(purified) + Human colon cancer tissue lysate at 20 µg

Secondary

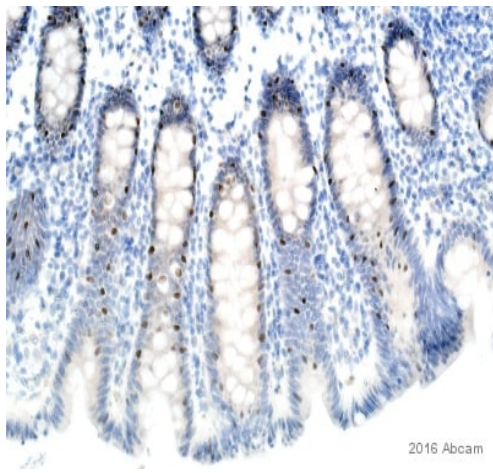
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 52 kDa

Observed band size: 52 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

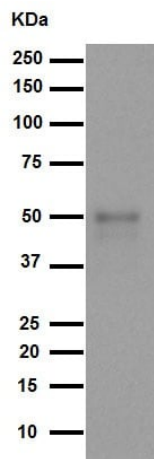
Diluting buffer and concentration: 5% NFDM /TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-FOXA2 antibody
[EPR4466] (ab108422)

This image is courtesy of Carl Hobbs, King's College
London, United Kingdom

Immunohistochemical analysis of Formalin/PFA-fixed paraffin-
embedded human colon sections labelling FOXA2 with ab108422
at dilution of 1/500. The secondary antibody used was a polyclonal
goat anti-rabbit biotin conjugated antibody at a dilution of 1/300.
The sample was counterstained with hematoxylin. Antigen retrieval
was heat mediated using citric acid.



Western blot - Anti-FOXA2 antibody [EPR4466] (ab108422)

Anti-FOXA2 antibody [EPR4466] (ab108422) at 1/2000 dilution (purified) + Mouse lung tissue lysate at 20 µg

Secondary

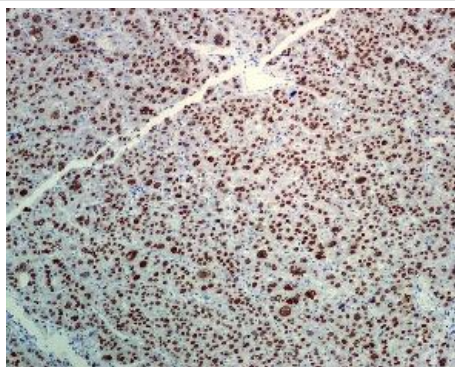
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 52 kDa

Observed band size: 52 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

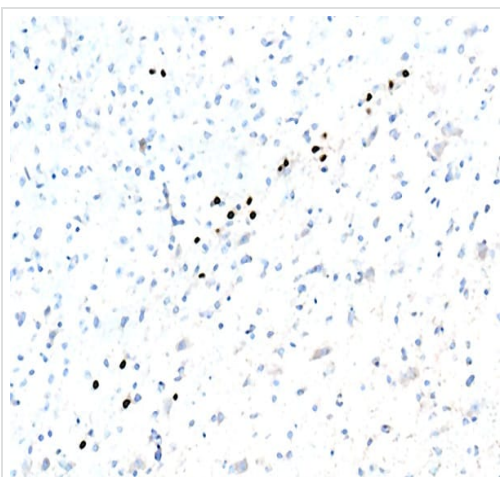
Diluting buffer and concentration: 5% NFDM /TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXA2 antibody [EPR4466] (ab108422)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human hepatocellular carcinoma tissue labelling FOXA2 with unpurified ab108422 at a 1/250 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXA2 antibody [EPR4466] (ab108422)

This image is courtesy of Carl Hobbs, King's College London, United Kingdom

ab108422 staining of FOXA2 in mouse brain (substantia nigra) tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Heat-mediated antigen retrieval was carried out using citric acid. Samples were incubated with primary antibody (1/500) for two hours at room temperature. A Biotin-conjugated goat anti-rabbit IgG polyclonal was used as the secondary antibody.

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



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Animal-free production

Anti-FOXA2 antibody [EPR4466] (ab108422)

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