

### Anti-FOXP4 antibody [EPR22714-2] ab242127

KO 評価済 リコンビナント RabMAb

1 References 画像数 12

#### 製品の概要

製品名	Anti-FOXP4 antibody [EPR22714-2]
製品の詳細	Rabbit monoclonal [EPR22714-2] to FOXP4
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt (Intra), WB, IP, IHC-P, IHC-Fr, ICC/IF
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: HepG2, Caco-2, HeLa, Hepa1-6, 4T1 and PC-12 whole cell lysates; Human colon and tonsil tissue lysates; Rat spleen tissue lysate. IHC-P: Human tonsil tissue; Mouse spleen tissue; Rat spleen tissue. IHC-Fr: Mouse colon tissue. ICC/IF: HepG2 cells. Flow Cyt (intra): HepG2 cells. IP: HepG2 whole cell lysate.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</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	Preservative: 0.01% Sodium azide Constituents: 59.94% 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	EPR22714-2

アプリケーション

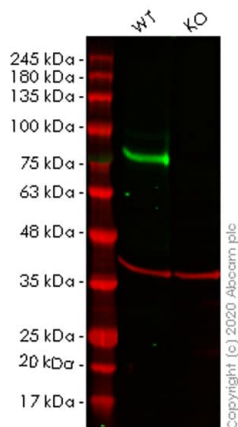
The Abpromise guarantee      **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab242127の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/50.
WB		1/1000. Detects a band of approximately 80 kDa (predicted molecular weight: 73 kDa).
IP		1/30.
IHC-P		1/4000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IHC-Fr		1/1000. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)
ICC/IF		1/500.

ターゲット情報

機能	Transcriptional repressor that represses lung-specific expression.
配列類似性	Contains 1 C2H2-type zinc finger. Contains 1 fork-head DNA-binding domain.
ドメイン	The leucine-zipper is required for dimerization and transcriptional repression.
細胞内局在	Nucleus.

画像



Western blot - Anti-FOXP4 antibody [EPR22714-2] (ab242127)

**All lanes :** Anti-FOXP4 antibody [EPR22714-2] (ab242127) at 1/1000 dilution

**Lane 1 :** HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysate

**Lane 2 :** FOXP4 knock out HepG2 whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (IRDye® 800CW) ([ab216773](#)) and Goat Anti-Mouse IgG H&L (IRDye® 680RD) ([ab216776](#)) at 1/10000 dilution

**Predicted band size:** 73 kDa

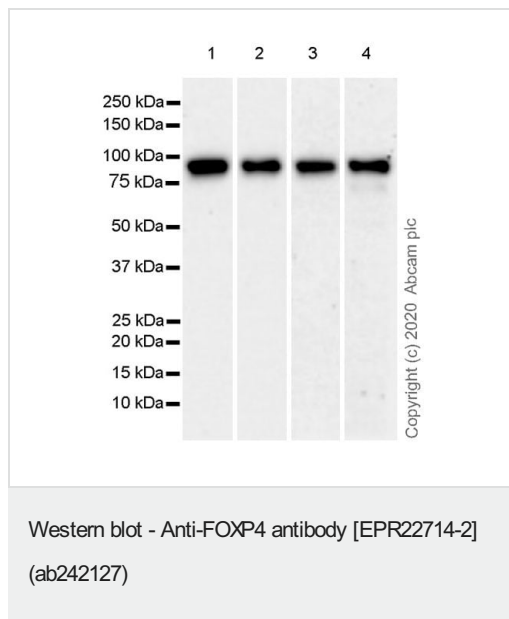
**Observed band size:** 80 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

The lysates were kindly provided by our collaborator Dr. Bin Zhao, Zhejiang University.

**Lanes 1-2:** Merged signal (red and green). Green - ab242127 observed at 80 kDa. Red - loading control [ab8245](#) (Mouse monoclonal [6C5] to GAPDH) observed at 36 kDa.

**Lanes 1-2:** ab242127 Anti-FOXP4 antibody [EPR22714-2] was shown to react with FOXP4 in HepG2 cells in Western blot. Loss of signal was observed when FOXP4 knockout sample was used. Wild-type and FOXP4 knockout samples were subjected to SDS-PAGE. ab242127 and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated at 4°C overnight at 1 in 1000 dilution and 1 in 10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.



**All lanes :** Anti-FOXP4 antibody [EPR22714-2] (ab242127) at 1/1000 dilution

**Lane 1 :** HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysate

**Lane 2 :** Caco-2 (human colorectal adenocarcinoma epithelial cell) whole cell lysate

**Lane 3 :** HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate

**Lane 4 :** Hepa1-6 (mouse hepatoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

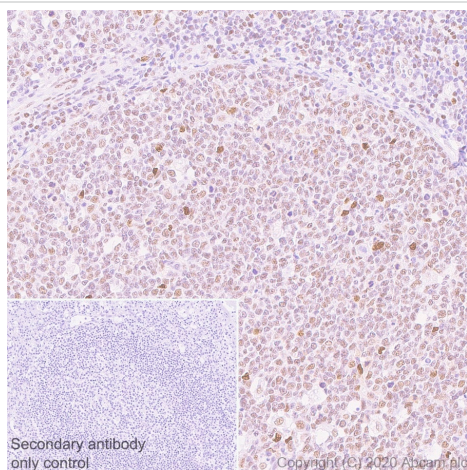
**Predicted band size:** 73 kDa

**Observed band size:** 80 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Lysates were made freshly and used in WB immediately to minimize protein degradation.

Exposure time: Lanes 1-2: 59 seconds; Lanes 3-4: 3 minutes.

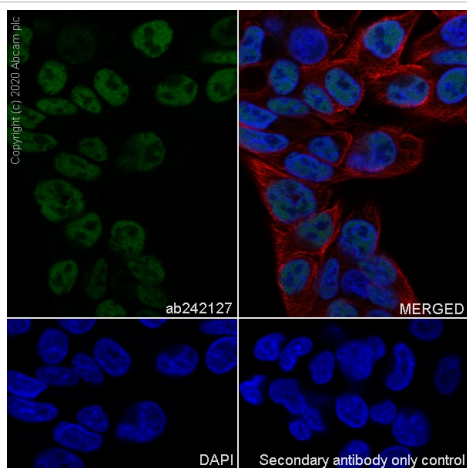


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP4 antibody [EPR22714-2] (ab242127)

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling FOXP4 with ab242127 at 1/4000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear staining on human tonsil. The section was incubated with ab242127 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument, Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

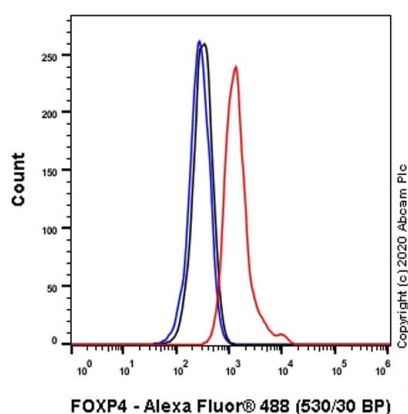
Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.



Immunocytochemistry/ Immunofluorescence - Anti-FOXP4 antibody [EPR22714-2] (ab242127)

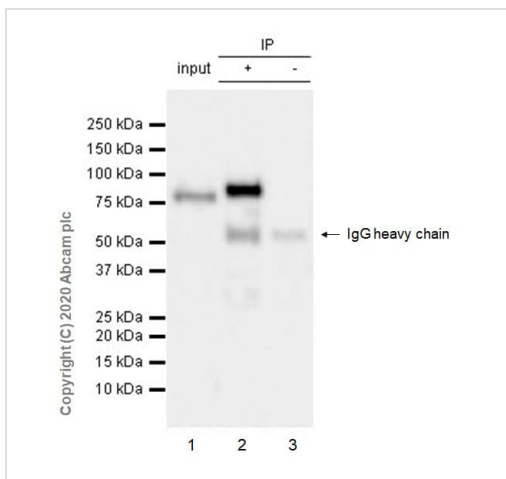
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HepG2 cells labelling FOXP4 with ab242127 at 1/500 dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing nuclear staining in HepG2 cells. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-FOXP4 antibody [EPR22714-2] (ab242127)

Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized HepG2 (human hepatocellular carcinoma epithelial cell) cells labelling FOXP4 with ab242127 at 1/50 dilution (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-FOXP4 antibody  
[EPR22714-2] (ab242127)

FOXP4 was immunoprecipitated from 0.35 mg HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysate with ab242127 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab242127 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used at 1/5000 dilution.

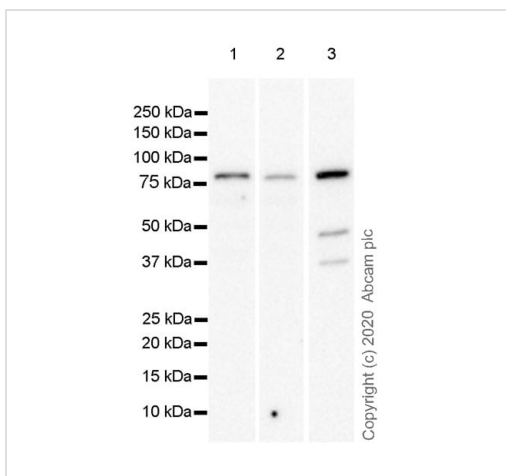
**Lane 1:** HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysate 10 ug

**Lane 2:** ab242127 IP in HepG2 whole cell lysate

**Lane 3:** Rabbit monoclonal IgG ([ab172730](#)) instead of ab242127 in HepG2 whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 8 seconds



Western blot - Anti-FOXP4 antibody [EPR22714-2]  
(ab242127)

**All lanes :** Anti-FOXP4 antibody [EPR22714-2] (ab242127) at 1/1000 dilution

**Lane 1 :** Human colon tissue lysate

**Lane 2 :** Human tonsil tissue lysate

**Lane 3 :** Rat spleen tissue lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**Lanes 1-2 :** VeriBlot for IP secondary antibody(HRP)([ab131366](#)) at 1/1000 dilution

**Lane 3 :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/100000 dilution

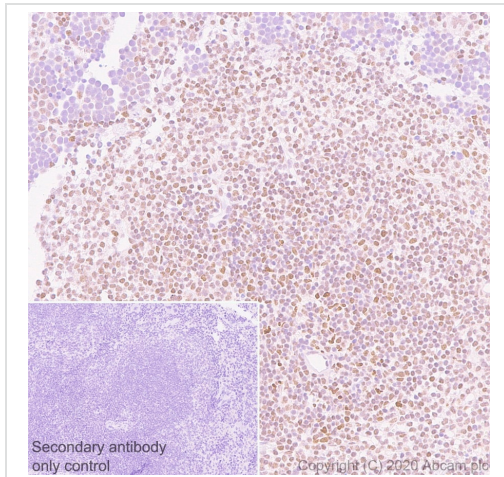
**Predicted band size:** 73 kDa

**Observed band size:** 80 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Bands around 50 kDa and 37 kDa in lane 3 are caused by degradation.

Exposure time: 3 minutes

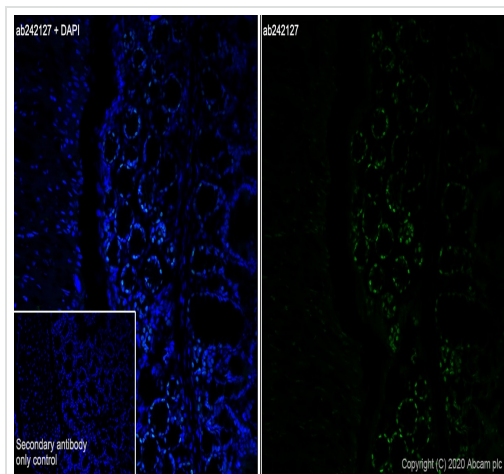


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP4 antibody [EPR22714-2] (ab242127)

Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labeling FOXP4 with ab242127 at 1/4000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear staining on mouse spleen. The section was incubated with ab242127 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.



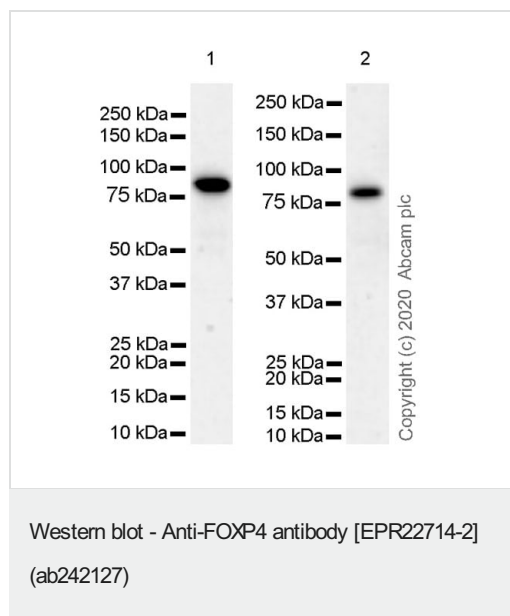
Immunohistochemistry (Frozen sections) - Anti-FOXP4 antibody [EPR22714-2] (ab242127)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse colon tissue labeling FOXP4 with ab242127 at 1/1000 dilution followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution (Green). Nuclear staining on mouse colon is observed. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).





**All lanes :** Anti-FOXP4 antibody [EPR22714-2] (ab242127) at 1/1000 dilution

**Lane 1 :** 4T1 (mouse mammary gland carcinoma epithelial cell) whole cell lysate

**Lane 2 :** PC-12 (rat adrenal gland pheochromocytoma ) whole cell lysate

Lysates/proteins at 20 µg per lane.

## Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

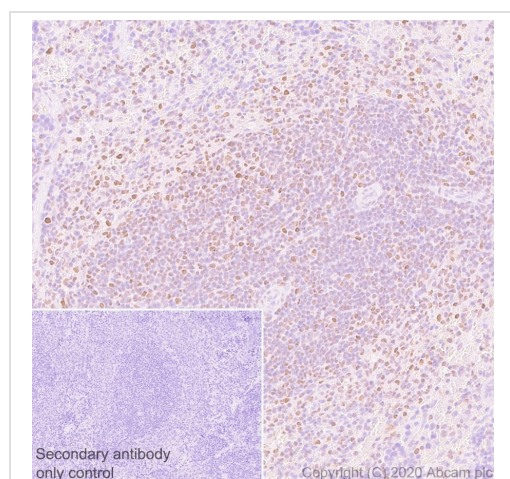
**Predicted band size:** 73 kDa

**Observed band size:** 80 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Lysates were made freshly and used in WB immediately to minimize protein degradation.

Exposure time: 3 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXP4 antibody [EPR22714-2] (ab242127)

Immunohistochemical analysis of paraffin-embedded Rat spleen tissue labeling FOXP4 with ab242127 at 1/4000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Nuclear staining on rat spleen. The section was incubated with ab242127 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.



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Anti-FOXP4 antibody [EPR22714-2] (ab242127)

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