abcam

Product datasheet

Anti-IRF2 antibody [EPR4644(2)] - BSA and Azide free ab229443

KO 評価済 リコンビナント RabMAb

画像数 8

製品の概要

製品名	Anti-IRF2 antibody [EPR4644(2)] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR4644(2)] to IRF2 - BSA and Azide free
由来種	Rabbit
アプリケーション	**適用あり:** ICC/IF, IHC-P, WB
種交差性	**交差種:** Mouse, 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: SW480, HeLa, Jurkat, Caco-2, RAW264.7 and NIH/3T3 cell lysates, and Human fetal lung lysate. IHC-P: Human colon, Human cervical cancer, Mouse colon and human colonic carcinoma tissue. ICC/IF: HeLa cells.
特記事項	ab229443 is the carrier-free version of **ab124744**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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**.

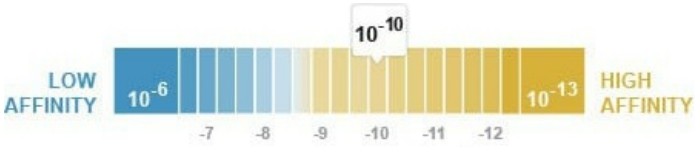
Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

製品の特性

製品の状態 Liquid

保存方法 Shipped at 4°C. Store at +4°C. Do Not Freeze.

解離定数（K_D 値） $K_D = 4.04 \times 10^{-10}$ M



Learn more about K_D

バッファー pH: 7.2
Constituent: PBS

キャリア・フリー はい

精製度 Protein A purified

ポリ/モノ モノクローナル

クローン名 EPR4644(2)

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ab229443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。

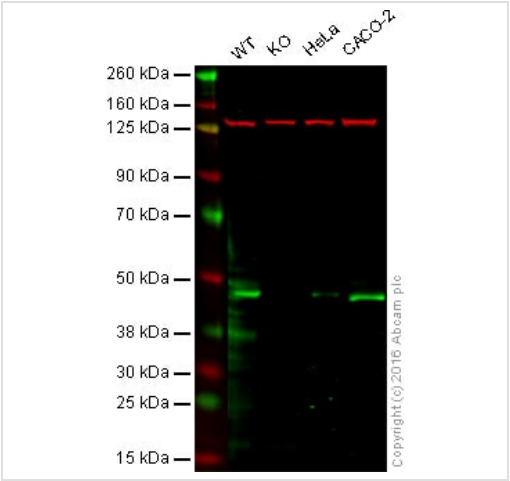
アプリケーション	Abreviews	特記事項
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.
WB		Use at an assay dependent concentration. Detects a band of approximately 50 kDa (predicted molecular weight: 39 kDa).

ターゲット情報

機能 Specifically binds to the upstream regulatory region of type I IFN and IFN-inducible MHC class I genes (the interferon consensus sequence (ICS)) and represses those genes. Also acts as an activator for several genes including H4 and IL7. Constitutively binds to the ISRE promoter to activate IL7. Involved in cell cycle regulation through binding the site II (HiNF-M) promoter region of

	H4 and activating transcription during cell growth. Antagonizes IRF1 transcriptional activation.
組織特異性	Expressed throughout the epithelium of the colon. Also expressed in lamina propria.
配列類似性	Belongs to the IRF family. Contains 1 IRF tryptophan pentad repeat DNA-binding domain.
翻訳後修飾	Acetylated by CBP/ p300 during cell-growth. Acetylation on Lys-75 is required for stimulation of H4 promoter activity. The major sites of sumoylation are Lys-137 and Lys-293. Sumoylation by SUMO1 increases its transcriptional repressor activity on IRF1 and diminishes its ability to activate ISRE and H4 promoter.
細胞内局在	Nucleus.

画像



Western blot - Anti-IRF2 antibody [EPR4644(2)] - BSA and Azide free (ab229443)

This WB data was generated using the same anti-IRF2 antibody clone, EPR4644(2), in a different buffer formulation (cat# **ab12474**).

Lane 1: Wild type HAP1 whole cell lysate (20 µg)

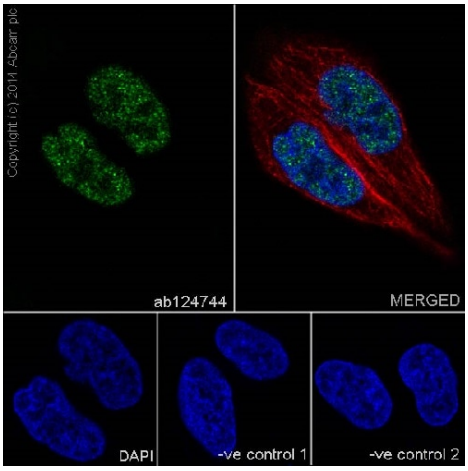
Lane 2: IRF2 knockout HAP1 whole cell lysate (20 µg)

Lane 3: HeLa whole cell lysate (20 µg)

Lane 4: CACO2 whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - **ab124744** observed at 48 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab124744 was shown to recognize IRF2 when IRF2 knockout samples were used, along with additional cross-reactive bands. Wild-type and IRF2 knockout samples were subjected to SDS-PAGE. Ab124744 and **ab18058** (Mouse anti Vinculin loading control) were incubated overnight at 4°C at 1/1000 and 1/10000 dilutions respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) **ab216773** and 680CW Goat anti Mouse secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.

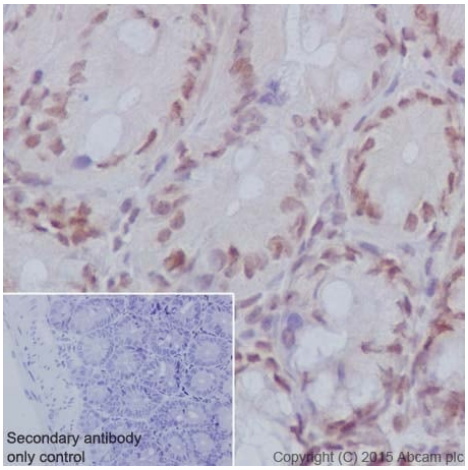


Immunocytochemistry/ Immunofluorescence - Anti-IRF2 antibody [EPR4644(2)] - BSA and Azide free (ab229443)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling IRF2 with **ab124744** at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/500 dilution (green). Confocal image showing nuclear staining on HeLa cells.

The nuclear counter stain 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: **ab124744** at 1/500 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.

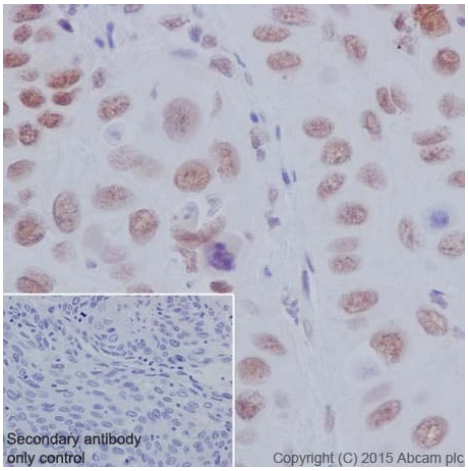
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124744**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRF2 antibody [EPR4644(2)] - BSA and Azide free (ab229443)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse colon tissue labeling IRF2 with purified **ab124744** at 1/50. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution was used as the secondary antibody. Nucleus staining on epithelial cells of mouse colon was observed. Negative control using PBS instead of primary antibody. Counterstained with Hematoxylin.

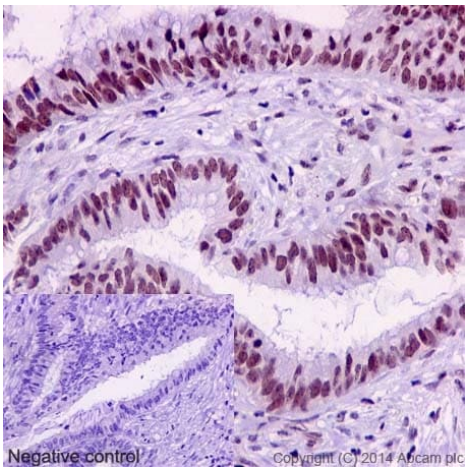
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124744**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRF2 antibody [EPR4644(2)] - BSA and Azide free (ab229443)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human cervical cancer tissue labeling IRF2 with purified **ab124744** at 1/50. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution was used as the secondary antibody. Nucleus staining on tumor cells of human cervix cancer was observed. Negative control using PBS instead of primary antibody. Counterstained with Hematoxylin.

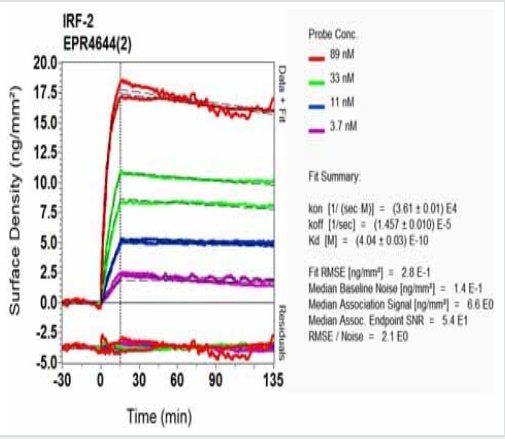
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124744**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRF2 antibody [EPR4644(2)] - BSA and Azide free (ab229443)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colonic carcinoma tissue labelling IRF2 with purified **ab124744** at 1/50. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with Hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124744**).



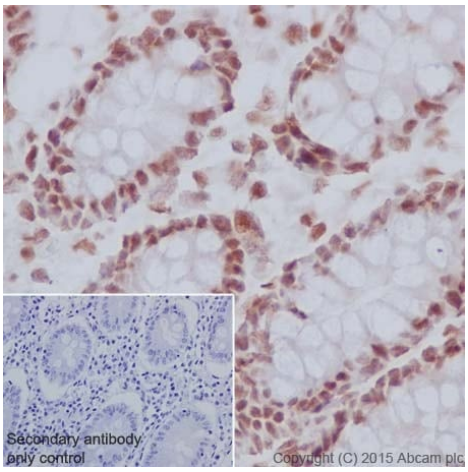
OI-RD Scanning - Anti-IRF2 antibody [EPR4644(2)] - BSA and Azide free (ab229443)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D

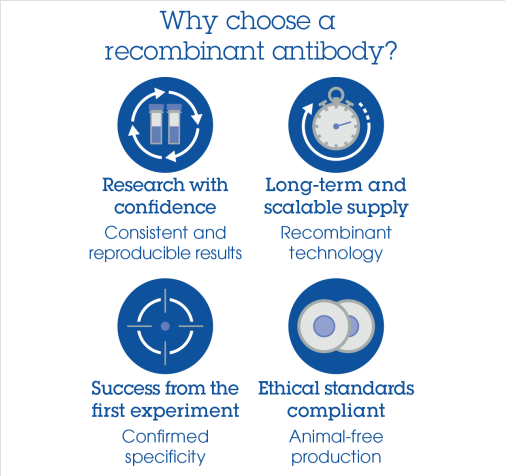
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab124744**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRF2 antibody [EPR4644(2)] - BSA and Azide free (ab229443)

This IHC data was generated using the same anti-IRF2 antibody clone, EPR4644(2), in a different buffer formulation (cat# **ab124744**).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human colon tissue labeling IRF2 with purified **ab124744** at 1/50. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution was used as the secondary antibody. Nucleus staining on epithelium of human colon was observed. Negative control using PBS instead of primary antibody. Counterstained with Hematoxylin.



Anti-IRF2 antibody [EPR4644(2)] - BSA and Azide free (ab229443)

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