abcam

Product datasheet

Anti-Brd4 antibody [EPR5150(2)] - BSA and Azide free ab182446

KO 評価済 リコンビナント RabMAb

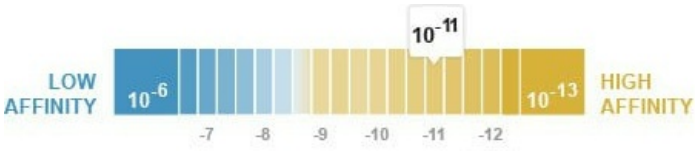
画像数 9

製品の概要

製品名	Anti-Brd4 antibody [EPR5150(2)] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR5150(2)] to Brd4 - BSA and Azide free
由来種	Rabbit
アプリケーション	**適用あり:** Flow Cyt (Intra), ICC/IF, WB, IHC-P
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	HAP1, HeLa, Caco2, T.T, RAW264.7 and NIH3T3 cell lysates; Human colon carcinoma tissue.
特記事項	ab182446 is the carrier-free version of **ab128874**. 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**.

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）	$K_D = 3.20 \times 10^{-11}$ M



Learn more about K_D

バッファー	pH: 7.20 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	EPR5150(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ab182446の使用に適用されます

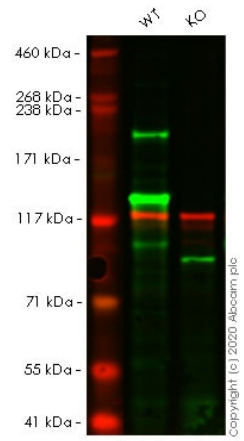
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 152 kDa (predicted molecular weight: 152 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.

ターゲット情報

機能	Plays a role in a process governing chromosomal dynamics during mitosis.
組織特異性	Ubiquitously expressed.
関連疾患	Note=A chromosomal aberration involving BRD4 is found in a rare, aggressive, and lethal carcinoma arising in midline organs of young people. Translocation t(15;19)(q14;p13) with NUT which produces a BRD4-NUT fusion protein.
配列類似性	Contains 2 bromo domains.
細胞内局在	Nucleus.

画像



Western blot - Anti-Brd4 antibody [EPR5150(2)] - BSA and Azide free (ab182446)

All lanes : Anti-Brd4 antibody [EPR5150(2)] (**ab128874**) at 1/200 dilution

Lane 1 : Wild-type HAP1 cell lysate
Lane 2 : BRD4 knockout HAP1 cell lysate

Lysates/proteins at 20 µg per lane.

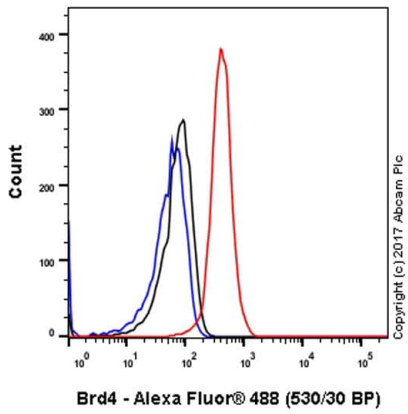
Performed under reducing conditions.

Predicted band size: 152 kDa
Observed band size: 220 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab128874**).

Lanes 1 - 2: Merged signal (red and green). Green - **ab128874** observed at 220 kDa. Red - loading control Mouse anti Vinculin observed at 125 kDa.

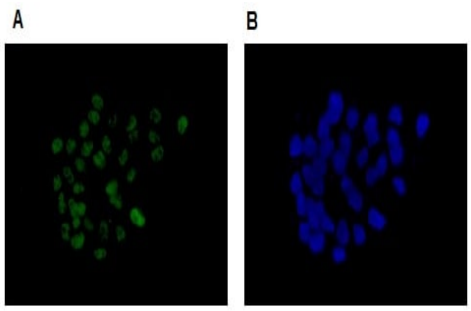
ab128874 was shown to react with Brd4 in wild-type cells in Western blot with loss of signal observed in BRD4 knockout sample. Wild-type and BRD4 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with **ab128874** and Mouse anti Vinculin overnight at 4 °C at a 1 in 200 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Flow Cytometry (Intracellular) - Anti-Brd4 antibody [EPR5150(2)] - BSA and Azide free (ab182446)

Intracellular Flow Cytometry analysis of SW480 (Human colorectal adenocarcinoma epithelial cell) cells labeling Brd4 (red) with purified **ab128874** at a 1/50 dilution (10 µg/mL). Cells were fixed with 80% methanol and permeabilized with 0.1% Tween-20. A goat anti rabbit IgG (Alexa Fluor®488) (**ab150077**) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (Black) (**ab172730**). Blue (unlabeled control) - Cell without incubation with primary antibody and secondary antibody (Blue).

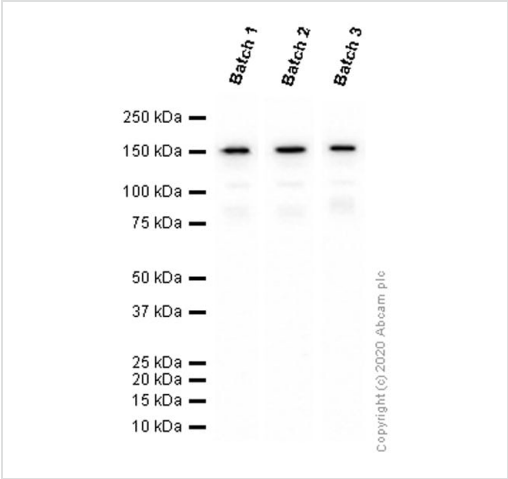
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab128874**).



Immunocytochemistry/ Immunofluorescence - Anti-Brd4 antibody [EPR5150(2)] - BSA and Azide free (ab182446)

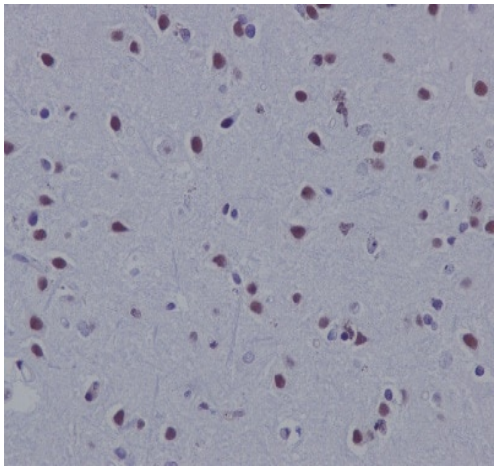
Immunocytochemistry/Immunofluorescence analysis of HepG2 (Human liver cell line) cells labeling Brd4 with purified **ab128874** at 1/100 (Panel A). Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/200) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain(Panel B).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab128874**).



Western blot - Anti-Brd4 antibody [EPR5150(2)] - BSA and Azide free (ab182446)

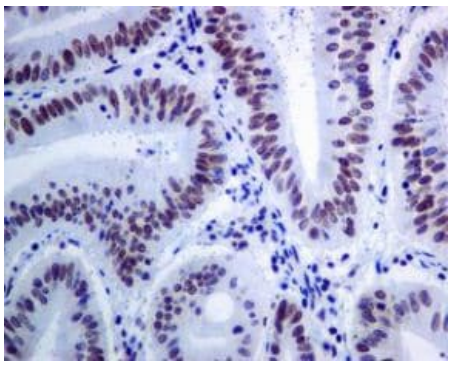
This data was developed using **ab128874**, the same antibody clone in a different buffer formulation. Different batches of **ab128874** were tested on HeLa (Human cervix adenocarcinoma epithelial cell) lysate at 0.1 µg/ml. 15 µg of lysate was loaded in each lane. Bands observed at 152 kDa.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Brd4 antibody [EPR5150(2)] - BSA and Azide free (ab182446)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human brain tissue labeling Brd4 with purified **ab128874** at 1/200. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. An undiluted Goat Anti-Rabbit IgG H&L (HRP) was used as the secondary antibody at. Counterstained with hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab128874**).

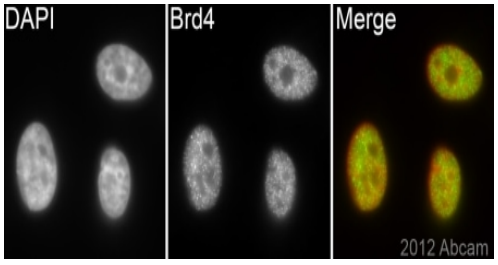


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Brd4 antibody [EPR5150(2)] - BSA and Azide free (ab182446)

Unpurified **ab128874** at 1/100 dilution staining Brd4 in human colon carcinoma tissue by Immunohistochemistry.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab128874**).

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



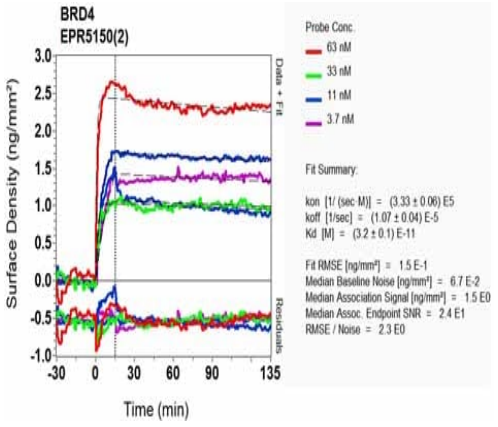
Immunocytochemistry/ Immunofluorescence - Anti-Brd4 antibody [EPR5150(2)] - BSA and Azide free (ab182446)

This image is courtesy of an Abreview submitted by Kirk McManus.

Unpurified **ab128874** (1/500) staining Brd4 in HeLa (Human epithelial cell line from cervix adenocarcinoma) cells (green). Cells were fixed in paraformaldehyde, permeabilized in 0.5% Triton X100/PBS and counterstained with DAPI in order to highlight the nucleus (red).

For further experimental details please refer to Abreview.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab128874**).



OI-RD Scanning - Anti-Brd4 antibody [EPR5150(2)] - BSA and Azide free (ab182446)

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 (**ab128874**).

Anti-Brd4 antibody [EPR5150(2)] - BSA and Azide free (ab182446)

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