abcam

Product datasheet

Anti-Vitamin D Receptor antibody [EPR4552] - BSA and Azide free ab239958

KO 評価済 リコンビナント RabMAb

画像数 4

製品の概要

製品名	Anti-Vitamin D Receptor antibody [EPR4552] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR4552] to Vitamin D Receptor - BSA and Azide free
由来種	Rabbit
アプリケーション	**適用あり:** ChIP, IP, WB **適用なし:** Flow Cyt,ICC/IF or IHC-P
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.
特記事項	ab239958 is the carrier-free version of **ab109234**. 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.
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	EPR4552
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ab239958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。

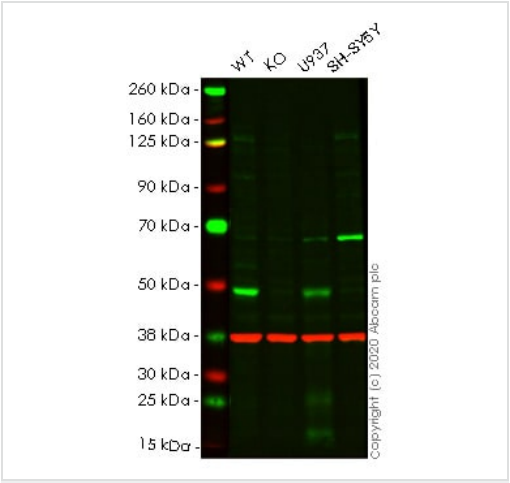
アプリケーション	Abreviews	特記事項
ChIP		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 48 kDa (predicted molecular weight: 48 kDa).

追加情報 Is unsuitable for Flow Cyt,ICC/IF or IHC-P.

ターゲット情報

機能	Nuclear hormone receptor. Transcription factor that mediates the action of vitamin D3 by controlling the expression of hormone sensitive genes. Regulates transcription of hormone sensitive genes via its association with the WINAC complex, a chromatin-remodeling complex. Recruited to promoters via its interaction with the WINAC complex subunit BAZ1B/WSTF, which mediates the interaction with acetylated histones, an essential step for VDR-promoter association. Plays a central role in calcium homeostasis.
関連疾患	Defects in VDR are the cause of rickets vitamin D-dependent type 2A (VDDR2A) [MIM:277440]. A disorder of vitamin D metabolism resulting in severe rickets, hypocalcemia and secondary hyperparathyroidism. Most patients have total alopecia in addition to rickets.
配列類似性	Belongs to the nuclear hormone receptor family. NR1 subfamily. Contains 1 nuclear receptor DNA-binding domain.
ドメイン	Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal ligand-binding domain.
細胞内局在	Nucleus.

画像



Western blot - Anti-Vitamin D Receptor antibody [EPR4552] - BSA and Azide free (ab239958)

All lanes : Anti-Vitamin D Receptor antibody [EPR4552] - ChIP Grade (**ab109234**) at 1/1000 dilution

Lane 1 : Wild-type HeLa lysate
Lane 2 : Vitamin D Receptor knockout HeLa lysate
Lane 3 : U-937 lysate
Lane 4 : SH-SY5Y lysate

Lysates/proteins at 20 µg per lane.

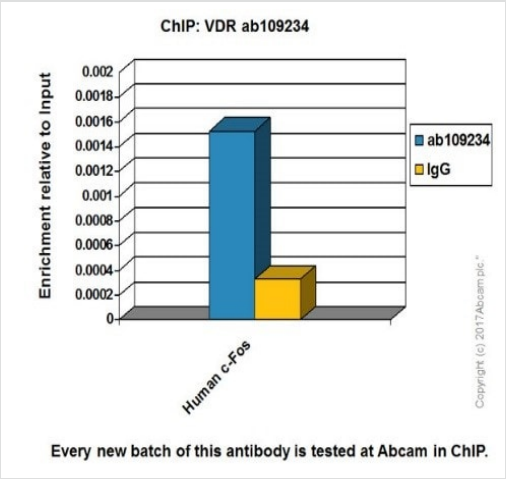
Performed under reducing conditions.

Predicted band size: 48 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab109234**).

Lanes 1-4: Merged signal (red and green). Green - **ab109234** observed at 50 kDa. Red - loading control **ab8245** observed at 37 kDa.

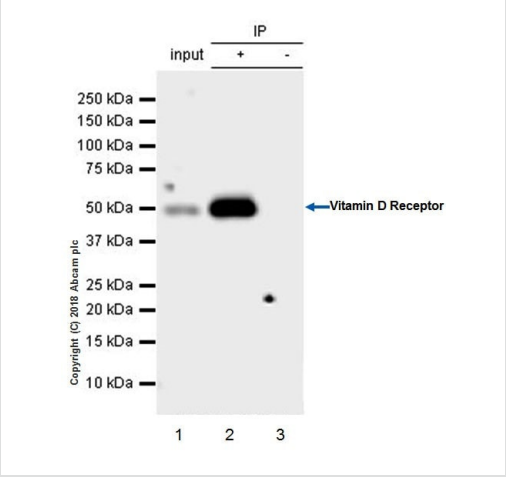
ab109234 Anti-Vitamin D Receptor antibody [EPR4552] - ChIP Grade was shown to specifically react with Vitamin D Receptor in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265430** (knockout cell lysate **ab257796**) was used. Wild-type and Vitamin D Receptor knockout samples were subjected to SDS-PAGE. **ab109234** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 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 20000 dilution for 1 hour at room temperature before imaging.



ChIP - Anti-Vitamin D Receptor antibody [EPR4552] - BSA and Azide free (ab239958)

Chromatin was prepared from T-47D cells according to the Abcam X-ChIP protocol. Cells were fixed with 1% formaldehyde for 10 minutes. The ChIP was performed with 25 µg of chromatin, 2 µg of **ab223850** (blue), and 20 µL of protein A/G sepharose beads slurry (10 µL of sepharose A beads + 10 µL of sepharose G beads). 5 µg of rabbit normal IgG was added to the beads as a control sample (yellow). The immunoprecipitated DNA was quantified by real time PCR (SYBR Green chemistry) with primers to c-Fos.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109234**).



Immunoprecipitation - Anti-Vitamin D Receptor antibody [EPR4552] - BSA and Azide free (ab239958)

Lane 1 (input): T-47D (Human ductal breast epithelial tumor epithelial cell) whole cell lysate, 10 µg
Lane 2(+): T-47D whole cell lysate
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab109234** in T-47D whole cell lysate

Ab109234 immunoprecipitating Vitamin D receptor in T-47D whole cell lysates. Capture antibody was used at a 1/30 dilution (2 µg in 0.35 mg lysates). For western blotting, primary antibody was used as **ab109234** at 1/1000 dilution (0.62 µg/mL). VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/5000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109234**).

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