Product datasheet

Anti-Vitamin D Receptor antibody - ChIP Grade ab3508

★★★★☆ 3 Abreviews 35 References 画像数 3

製品の概要

製品名
Anti-Vitamin D Receptor antibody - ChIP Grade

製品の詳細
Rabbit polyclonal to Vitamin D Receptor - ChIP Grade

由来種
Rabbit

アプリケーション
適用あり: ICC/IF, IHC-Fr, GSA, IP, WB, CHIPseq, IHC-P, ChIP

種交差性
交差種: Mouse, Rat, Chicken, Human
交差が予測される動物種: Cow, Pig, Zebrafish, Saguinus oedipus

免疫原
Synthetic peptide corresponding to Human Vitamin D Receptor aa 395-413.
Sequence:
EEHSKQYRCLSFQPECSMK

Database link: P11473

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 or -80°C. Avoid freeze / thaw cycle.

バッファー
Preservative: 0.05% Sodium azide

精製度
Whole antiserum

ポリ/モノ
ポリクローナル

アイソタイプ
IgG

アプリケーション
Our Abpromise guarantee covers the use of ab3508 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
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.

ターゲット情報

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<td>EMSA</td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>ICC/IF</td>
<td>★★★★★ Use at an assay dependent concentration.</td>
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<tr>
<td>IHC-Fr</td>
<td>★★★★★ Use at an assay dependent concentration.</td>
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<td>GSA</td>
<td>Use at an assay dependent concentration.</td>
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<td>IP</td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>WB</td>
<td>★★★★★ 1/100. Detects a band of approximately 53 kDa (predicted molecular weight: 48 kDa). 1/100. Detects a band of approximately 53 kDa in COS-7 cells transfected with the human gene (predicted molecular weight: 48 kDa). This antibody supershifts DNA fragments that contain VDR response elements (e.g., rat osteocalcin and mouse osteopontin upstream elements).</td>
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<td>CHIPseq</td>
<td>Use at an assay dependent concentration. PubMed: 21846776</td>
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<td>IHC-P</td>
<td>1/2000 - 1/4000.</td>
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<td>ChiP</td>
<td>Use at an assay dependent concentration. PubMed: 17244627Use at an assay dependent dilution.</td>
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画像
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Vitamin D Receptor antibody - ChIP Grade (ab3508)  

Ab3508 staining Human normal jejunum. Staining is localized to the nucleus.  
Left panel: with primary antibody at 1/2000. Right panel: isotype control.  
Sections were stained using an automated system DAKO Autostainer Plus, at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 AR buffer, citrate pH 6.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.  

Immunocytochemistry/ Immunofluorescence - Anti-Vitamin D Receptor antibody - ChIP Grade (ab3508)  
This image is courtesy of an Abreview submitted by Dr A Uhmann  
ab3508 staining the Vitamin D Receptor in mVDR-transfected and untransfected Mouse NIH/3T3 cells by ICC/IF (immunocytochemistry/immunofluorescence). Cells were paraformaldehyde fixed, permeabilized with Triton X-100 and blocked with 1% BSA/5%HS for 30 minutes at 20°C. The sample was incubated with the primary antibody (1/50 in 1% BSA/5% HS in 1xPBS) for 1 hour 30 minutes at 20°C. A Cy3-conjugated goat anti-rabbit polyclonal (1/200) was used as the secondary.  

Immunohistochemistry (Frozen sections) - Anti-Vitamin D Receptor antibody - ChIP Grade (ab3508)  
This image is courtesy of an anonymous abreview.  
ab3508 at a 1/2000 dilution staining Vitamin D Receptor in whole Rat embryo tissue sections by Immunohistochemistry (frozen sections) incubated for 16 hours at 25°C. Samples fixed in 4% PFA prior to cutting at 30µm thickness. Blocked with 5% serum for 1 hour at 25°C. Secondary used at 1/200 polyclonal Goat anti-rabbit conjugated to Alexa Fluor 488.

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