Product datasheet

Anti-Vitamin D Receptor antibody ab3508

Overview

Product name
Antibody to Vitamin D Receptor

Description
Rabbit polyclonal to Vitamin D Receptor

Host species
Rabbit

Tested applications
Suitable for: IHC-P

Species reactivity
Reacts with: Mouse, Rat, Chicken, Human
Predicted to work with: Cow, Pig, Zebrafish, Saguinus oedipus

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

Database link: P11473

Properties

Form
Liquid

Storage instructions
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.

Storage buffer
Preservative: 0.05% Sodium azide

Purity
Whole antiserum

Clonality
Polyclonal

Isotype
IgG

Applications

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.
**Function**  
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.

**Involvement in disease**  
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.

**Sequence similarities**  
Belongs to the nuclear hormone receptor family. NR1 subfamily. Contains 1 nuclear receptor DNA-binding domain.

**Domain**  
Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal ligand-binding domain.

**Cellular localization**  
Nucleus.

**Images**  
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.

**Notes**  
IHC-P  
1/2000 - 1/4000.

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