abcam

Product datasheet

Anti-Vitamin D Receptor antibody ab79513

1 Image

Overview

Product name	Anti-Vitamin D Receptor antibody
Description	Rabbit polyclonal to Vitamin D Receptor
Host species	Rabbit
Tested applications	**Suitable for:** WB, ELISA
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic non-phosphopeptide derived from human Vitamin D Receptor around the phosphorylation site of serine 51 (R-R-S^{P}-M-K).
Positive control	Extracts from Jurkat cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg^{2+} and Ca^{2+}), 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab79513** in the following tested applications.

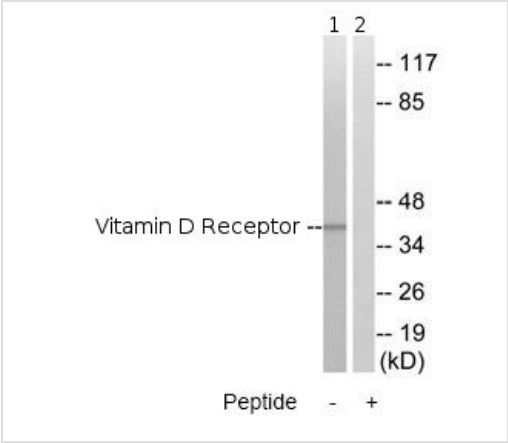
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Predicted molecular weight: 48 kDa.
ELISA		1/40000.

Target

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



Western blot - Vitamin D Receptor antibody (ab79513)

All lanes : Anti-Vitamin D Receptor antibody (ab79513) at 1/500 dilution

Lane 1 : Extracts from Jurkat cells
Lane 2 : Extracts from Jurkat cells with immunising peptide at 10 µg

Lysates/proteins at 30 µg per lane.

Predicted band size: 48 kDa
Observed band size: 42 kDa

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