

VDR Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18415a

Specification

VDR Antibody - Product Information

Application	WB,E
Primary Accession	P11473
Other Accession	NP_000367.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	48289

VDR Antibody - Additional Information

Gene ID 7421

Other Names

Vitamin D3 receptor, VDR,
25-dihydroxyvitamin D3 receptor, Nuclear
receptor subfamily 1 group I member 1,
VDR, NR1I1

Target/Specificity

This VDR antibody is generated from rabbits immunized with a recombinant protein of human VDR.

Dilution

WB~~1:1000

Format

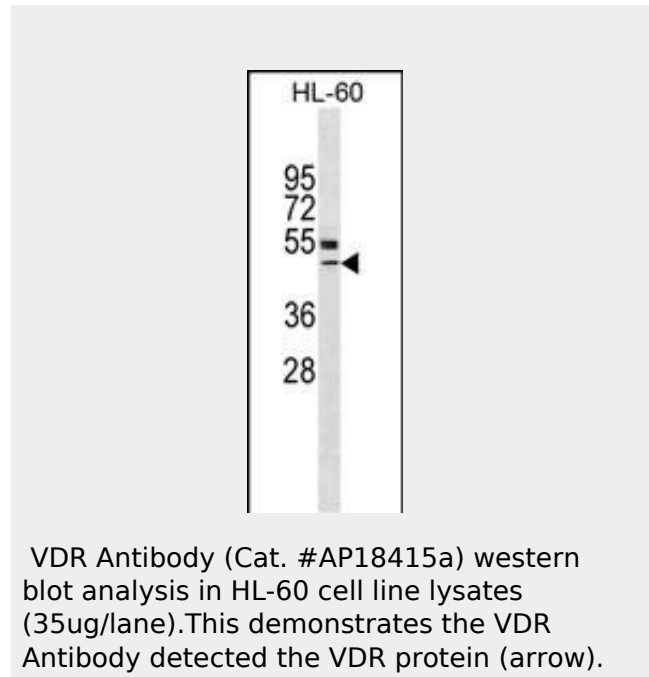
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

VDR Antibody is for research use only and not for use in diagnostic or therapeutic procedures.



VDR Antibody (Cat. #AP18415a) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the VDR Antibody detected the VDR protein (arrow).

VDR Antibody - Background

This gene encodes the nuclear hormone receptor for vitamin D3. This receptor also functions as a receptor for the secondary bile acid lithocholic acid. The receptor belongs to the family of trans-acting transcriptional regulatory factors and shows sequence similarity to the steroid and thyroid hormone receptors. Downstream targets of this nuclear hormone receptor are principally involved in mineral metabolism though the receptor regulates a variety of other metabolic pathways, such as those involved in the immune response and cancer. Mutations in this gene are associated with type II vitamin D-resistant rickets. A single nucleotide polymorphism in the initiation codon results in an alternate translation start site three codons downstream. Alternative

VDR Antibody - Protein Information

Name VDR

Synonyms NR1I1

Function

Nuclear receptor for calcitriol, the active form of vitamin D3 which mediates the action of this vitamin on cells (PubMed:28698609, PubMed:16913708, PubMed:15728261, PubMed:10678179). Enters the nucleus upon vitamin D3 binding where it forms heterodimers with the retinoid X receptor/RXR (PubMed:28698609). The VDR-RXR heterodimers bind to specific response elements on DNA and activate the transcription of vitamin D3-responsive target genes (PubMed:28698609). Plays a central role in calcium homeostasis (By similarity).

Cellular Location

Nucleus
{ECO:0000255|PROSITE-ProRule:PRU00407, ECO:0000269|PubMed:12145331, ECO:0000269|PubMed:28698609}.
Cytoplasm Note=Localizes mainly to the nucleus (PubMed:28698609, PubMed:12145331). Localization to the nucleus is enhanced by vitamin D3.

splicing results in multiple transcript variants encoding the same protein.

VDR Antibody - References

An, B.S., et al. Mol. Cell. Biol. 30(20):4890-4900(2010)
Elnenaei, M.O., et al. Br. J. Nutr., 1-8 (2010) In press :
Forghani, N., et al. J. Pediatr. Endocrinol. Metab. 23(8):843-850(2010)
Alvarez-Nava, F., et al. J. Pediatr. Endocrinol. Metab. 23(8):773-782(2010)
Jurutka, P.W., et al. Proc. Natl. Acad. Sci. U.S.A. 93(8):3519-3524(1996)

VDR Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)