

## Product datasheet for **AP20319PU-N**

### Vitamin D Receptor (VDR) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunofluorescence:</b> 1/50-1/200. <b>Immunohistochemistry on Paraffin Sections:</b> 1/50-1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of VDR protein.
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 15mM Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Predicted Protein Size:	~48.0 kDa
Gene Name:	vitamin D (1,25- dihydroxyvitamin D3) receptor
Database Link:	<a href="#">Entrez Gene 7421 Human P11473</a>



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**Background:**

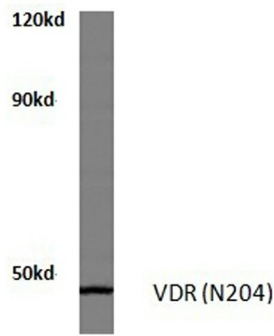
The active metabolite of vitamin D modulates the expression of a wide variety of genes in a developmentally-specific manner. This secosteroid hormone can up- or downregulate the expression of genes involved in a diverse array of responses such as proliferation, differentiation and calcium homeostasis. 1,25-(OH)<sub>2</sub>-vitamin D<sub>3</sub> exerts its effects through interaction with the vitamin D receptor (VDR), a member of the superfamily of hormone-activated nuclear receptors. In its ligand-bound state, the VDR forms heterodimers with the 9-cis retinoic acid receptor, RXR, and affects gene expression by binding specific DNA sequences known as hormone response elements, or HREs. In addition to regulating the above-mentioned cellular responses, 1,25-(OH)<sub>2</sub>-vitamin D<sub>3</sub> exhibits antiproliferative properties in osteosarcoma, melanoma, colon carcinoma and breast carcinoma cells.

**Synonyms:**

VDR, 1,25-dihydroxyvitamin D<sub>3</sub> receptor

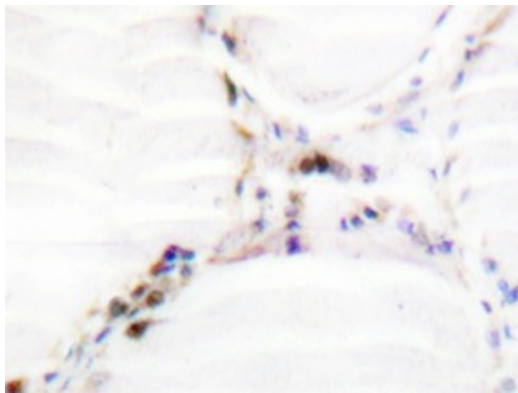
**Protein Families:**

Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

**Product images:**


HeLa whole cell lysate  
VDR (N204) pAb at 1:500 dilution

Western blot (WB) analysis of VDR antibody (Cat.-No.: AP20319PU-N) in extracts from HeLa cells.



Immunohistochemistry analysis of Vitamin D<sub>3</sub> receptor / NR111 antibody (Cat.-No.: AP20319PU-N) in paraffin-embedded human thyroid gland tissue.