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Product datasheet for AP20319PU-M

Vitamin D Receptor (VDR) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	**Western blot:** 1/500-1/1000. **Immunofluorescence:** 1/50-1/200. **Immunohistochemistry on Paraffin Sections:** 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:	Entrez Gene 7421 Human P11473

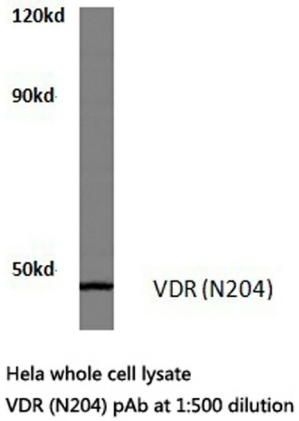
View online »

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)2-vitamin D3 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)2-vitamin D3 exhibits antiproliferative properties in osteosarcom,a melanom,a colon carcinoma and breast carcinoma cells.

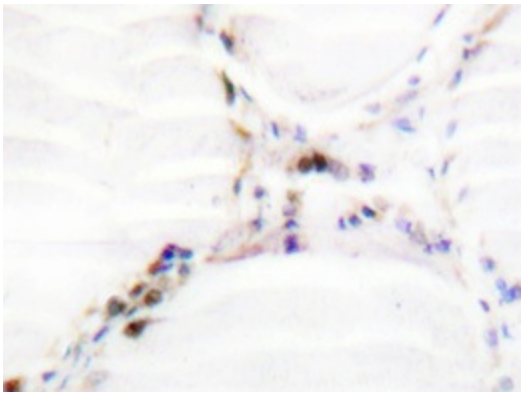
Synonyms: VDR, 1,25-dihydroxyvitamin D3 receptor

Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Product images:



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



Immunohistochemistry analysis of Vitamin D3 receptor / NR1I1 antibody (Cat.-No.: [AP20319PU-N]) in paraffin-embedded human thyroid gland tissue.