

VDR Polyclonal Antibody

Catalog NumberPA1-9116

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Goat / IgG	Tested Applications	
Class	Polyclonal	Flow Cytometry (Flow)	10 µg/mL
Type	Antibody	Western Blot (WB)	2-3 µg/mL
Immunogen	Internal sequence corresponding to amino acids CGNQDYKYRVSD.	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.5 mg/mL		
Purification	Ammonium sulfate precipitation		
Storage buffer	TBS, pH 7.3, with 0.5% BSA		
Contains	0.02% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

This antibody is predicted to react with canine based on sequence homology. This antibody is tested in Peptide ELISA: antibody detection limit dilution 16,000.

Background/Target Information

Steroid receptors are ligand-dependent intracellular proteins that stimulate transcription of specific genes by binding to specific DNA sequences following activation by the appropriate hormone. The 1,25-dihydroxy-vitamin D3 receptor (VDR) belongs to the superfamily of steroid hormone receptors which includes estrogen, progesterone, glucocorticoid, androgen, and thyroid hormone receptors. Vitamin D modulates calcium and phosphorus homeostasis, bone remodeling, cell growth regulation, and differentiation. Studies have found VDR in the intestine, bone, kidney, epidermis, and cells of the endocrine immune system. Repression of T-cell proliferation and interleukin-2 (IL-2) gene expression, for example, occurs when VDR binds within the IL-2 enhancer. Formation of VDR/retinoic X receptor (RXR) heterodimers in the presence of intracellular 1,25(OH)2D3 has been shown to interfere with assembly of nuclear factor of activated T-cells (NFATp)/Fos/Jun/DNA complex and subsequent IL-2 gene transcription. The corresponding gene for the vitamin D receptor is NR1H1.

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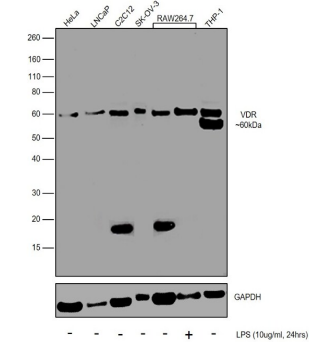
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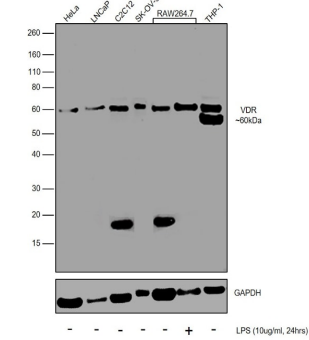
VDR Antibody (PA1-9116)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using VDR Polyclonal Antibody (Product # PA1-9116), shows an increase in expression of VDR in RAW 264.7 cells upon LPS treatment. {TM}



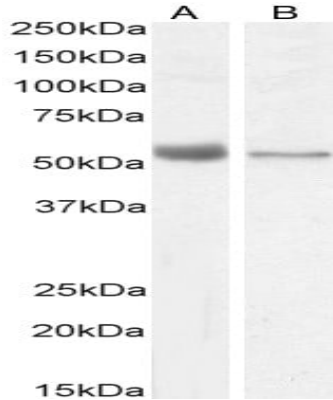
VDR Antibody (PA1-9116) in WB

Western blot was performed using Anti-VDR Polyclonal Antibody (Product # PA1-9116) and a 60 kDa band corresponding to VDR was observed in all the tested cell models, and was upregulated upon LPS treatment in RAW 264.7. Whole cell lysate (30 µg lysate) of HeLa (Lane 1), LNCaP (Lane 2), C2C12 (Lane 3), SK-OV-3 (Lane 4), RAW264.7 (Lane 5), RAW264.7 (LPS, 10 µg/mL, 24hrs) (Lane 6) and THP-1 (Lane 7) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1 µg/mL concentration) and detected by chemiluminescence with Rabbit anti-Goat IgG Heavy Chain Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27014, 1:4,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using SuperSignal™ West Dura Extended Duration Substrate (Product # 34076).



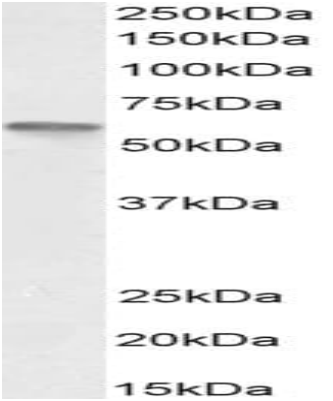
VDR Antibody (PA1-9116) in WB

Western blot analysis of VDR using VDR Polyclonal Antibody (Product # PA1-9116) (3 µg/mL) in staining of Human Placenta (A) and (2 µg/mL) Duodenum (B) lysate (35 µg protein in RIPA buffer). Detected by chemiluminescence.



VDR Antibody (PA1-9116) in WB

Western blot analysis of VDR using VDR Polyclonal Antibody (Product # PA1-9116) (3 µg/mL) in staining of U937 cell lysate (35 µg protein in RIPA buffer). Detected by chemiluminescence.



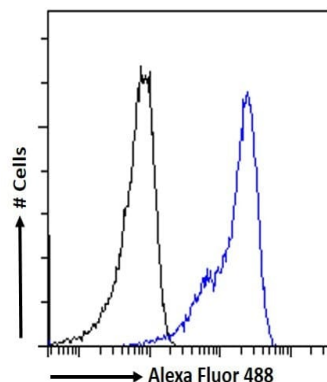
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VDR Antibody (PA1-9116) in Flow

Flow Cytometry analysis of VDR using VDR Polyclonal Antibody (Product # PA1-9116) in paraformaldehyde fixed U937 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 µg/mL) followed by Alexa Fluor 488 secondary antibody (1 µg/mL). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



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