

For Research Use Only

# VDR Recombinant monoclonal antibody

Catalog Number: 87335-1-RR



## Basic Information

**Catalog Number:**  
87335-1-RR

**Source:**  
Rabbit

**Isotype:**  
IgG

**Immunogen Catalog Number:**  
AG28176

**GenBank Accession Number:**  
BC060832

**GeneID (NCBI):**  
7421

**UNIPROT ID:**  
P11473

**Full Name:**  
vitamin D (1,25-dihydroxyvitamin  
D3) receptor

**Calculated MW:**  
48 kDa

**Observed MW:**  
48 kDa

**Purification Method:**  
Protein A purification

**CloneNo.:**  
252576C4

**Recommended Dilutions:**  
WB: 1:5000-1:50000  
IP: 0.5-4.0 ug for 1.0-3.0 mg of total  
protein lysate

## Applications

**Tested Applications:**  
WB, IP, ELISA

**Species Specificity:**  
human

**Positive Controls:**

**WB:** HeLa cells, T-47D cells, MCF-7 cells

**IP:** HeLa cells,

## Background Information

The vitamin D<sub>3</sub> receptor (VDR), also known as NR11 (nuclear receptor subfamily 1, group I, member 1), is a member of the nuclear receptor family of transcription factors. Upon activation by vitamin D, the VDR forms a heterodimer with the retinoid-X receptor and binds to hormone response elements on DNA resulting in expression or trans-repression of specific gene products. It is an intracellular hormone receptor that specifically binds 1,25(OH)<sub>2</sub>D<sub>3</sub> and mediates its effects. 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. Defects in VDR are the cause of rickets vitamin D-dependent type 2A (VDDR2A). A disorder of vitamin D metabolism results in severe rickets, hypocalcemia and secondary hyperparathyroidism. Most patients have total alopecia in addition to rickets. The VDR exists two isoform with the MV 48 kDa and 54 kDa.

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

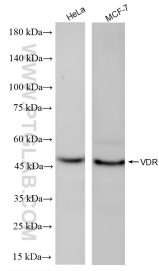
T: 4006900926

E: Proteintech-CN@ptglab.com

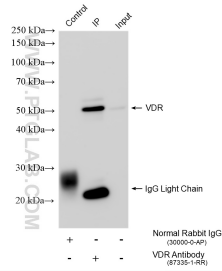
W: ptgcn.com

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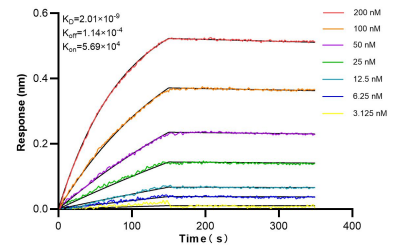
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87335-1-RR (VDR antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-VDR (IP:87335-1-RR, 4 $\mu$ g; Detection:87335-1-RR 1:1500) with HeLa cells lysate 1320  $\mu$ g.



Bi-layer interferometry (BLI) kinetic assays of 87335-1-RR against Human VDR were performed. The affinity constant is 2.01 nM.