

For Research Use Only

VDR Recombinant monoclonal antibody

Catalog Number:87335-1-RR



Basic Information

Catalog Number: 87335-1-RR	GenBank Accession Number: BC060832	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 7421	CloneNo.: 252576C4
Source: Rabbit	UNIPROT ID: P11473	Recommended Dilutions: WB: 1:5000-1:50000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Isotype: IgG	Full Name: vitamin D (1,25- dihydroxyvitamin D3) receptor	
Immunogen Catalog Number: AG28176	Calculated MW: 48 kDa	
	Observed MW: 48 kDa	

Applications

Tested Applications: WB, IP, ELISA	Positive Controls:
Species Specificity: human	WB : HeLa cells, T-47D cells, MCF-7 cells IP : HeLa cells,

Background Information

The vitamin D₃ receptor (VDR), also known as NR111 (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)₂D₃ 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

*** 20ul sizes contain 0.1% BSA

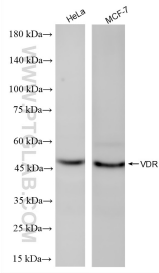
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

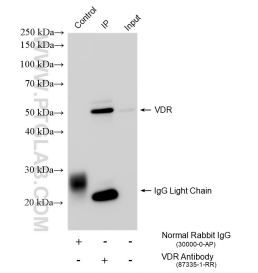
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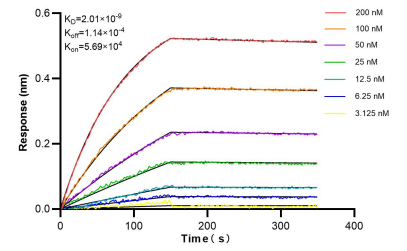
Selected Validation Data



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 μ g; Detection:87335-1-RR 1:1500) with HeLa cells lysate 1320 μ g.



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