

## VDR Rabbit pAb

CatalogNo: YT4868

Orthogonal Validated 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human,Rat,Mouse,

#### Applications

- WB,IHC,IF,ELISA

#### MW

- 38kD (Observed)

#### Isotype

- IgG

### Recommended Dilution Ratios

**WB 1:500-1:2000****IHC 1:100-1:300****IF 1:200-1:1000****ELISA 1:10000****Not yet tested in other applications.**

### Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human Vitamin D Receptor. AA range:181-230**Specificity** VDR Polyclonal Antibody detects endogenous levels of VDR protein.

## Target Information

**Gene name** VDR

**Protein Name** Vitamin D3 receptor

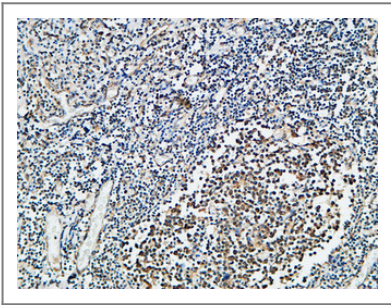
Organism	Gene ID	UniProt ID
Human	<a href="#">7421</a> ;	<a href="#">P11473</a> ;
Mouse		<a href="#">P48281</a> ;

**Cellular Localization** Nucleus . Cytoplasm . Localizes mainly to the nucleus (PubMed:28698609, PubMed:12145331). Localization to the nucleus is enhanced by vitamin D3. .

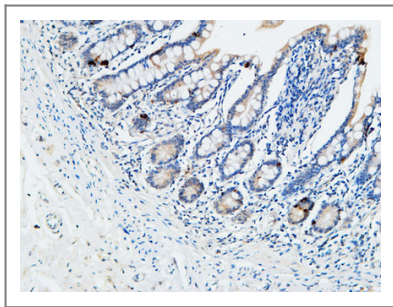
**Tissue specificity** Lens epithelium,Peripheral blood,Placenta,Rectum,

**Function** Caution:It is uncertain whether Met-1 or Met-4 is the initiator.,Disease:Defects in VDR are the cause of type IIA rickets [MIM:277440]; also known as hypocalcemic vitamin D-resistant rickets (HVDRR). HVDRR is most frequently an autosomal recessive disorder characterized by severe rickets, hypocalcemia and secondary hyperparathyroidism.,Domain:Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal steroid-binding domain.,Function:Nuclear hormone receptor. Transcription factor that mediates the action of vitamin D3 by controlling the expression of hormone sensitive genes. Regulates transcription of hormone sensitive genes via its association with the WINAC complex, a chromatin-remodeling complex. Recruited to promoters via its interaction with the WINAC complex subunit BAZ1B/WSTF, which mediates the interaction with acetylated histones, an essential step for VDR-promoter association. Plays a central role in calcium homeostasis.,online information:The Singapore human mutation and polymorphism database,polymorphism:Genetic variations in VDR may determine Mycobacterium tuberculosis susceptibility [MIM:607948].,similarity:Belongs to the nuclear hormone receptor family. NR1 subfamily.,similarity:Contains 1 nuclear receptor DNA-binding domain.,subunit:Homodimer in the absence of bound vitamin D3. Heterodimer with RXRA after vitamin D3 binding. Interacts with SMAD3. Interacts with MED1, NCOA1, NCOA2, NCOA3 and NCOA6 coactivators, leading to a strong increase of transcription of target genes. Interacts (in a ligand-dependent manner) with BAZ1B/WSTF.,

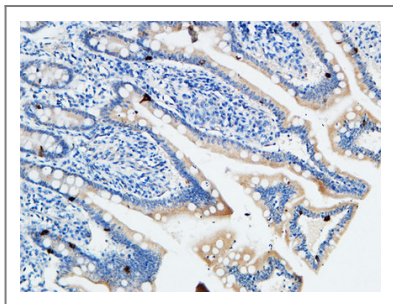
## Validation Data



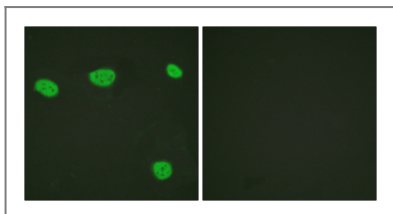
Immunohistochemical analysis of paraffin-embedded Human Amygdala. 1, Antibody was diluted at 1:100(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



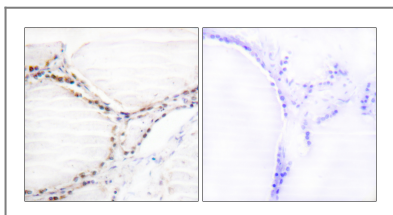
Immunohistochemical analysis of paraffin-embedded Human colon. 1, Antibody was diluted at 1:100(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



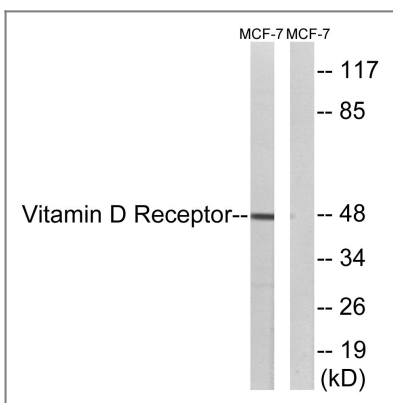
Immunohistochemical analysis of paraffin-embedded Human colon. 1, Antibody was diluted at 1:100(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



Immunofluorescence analysis of HeLa cells, using Vitamin D Receptor Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human thyroid gland tissue, using Vitamin D Receptor Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from MCF-7 cells, using Vitamin D Receptor Antibody. The lane on the right is blocked with the synthesized peptide.

## Contact information

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