VDR (Phospho Ser51) Rabbit pAb

CatalogNo: YP0440 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 38kD (Observed)

Isotype
- IgG

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.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:20000
IF 1:50-200

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human Vitamin D3 Receptor around the phosphorylation site of Ser51. AA range:16-65

Specificity Phospho-VDR (S51) Polyclonal Antibody detects endogenous levels of VDR protein only when phosphorylated at S51.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RRsMK

Target Information

Gene name VDR NR1I1

Protein Name Vitamin D3 receptor (VDR) (1,25-dihydroxyvitamin D3 receptor) (Nuclear receptor subfamily 1 group I member 1)

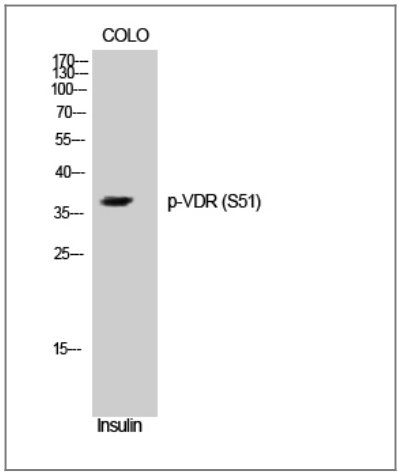
Organism	Gene ID	UniProt ID
Human	7421;	P11473;
Mouse	22337;	P48281;
Rat	24873;	P13053;

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

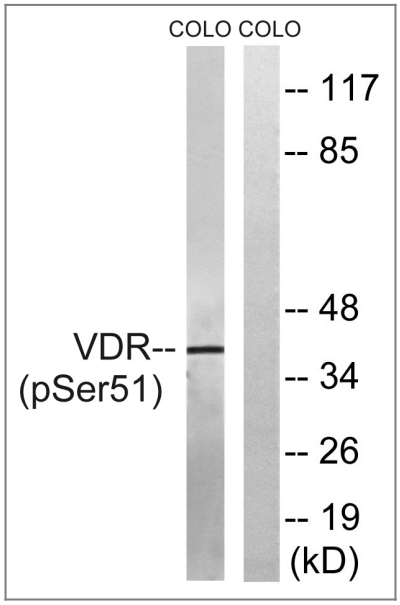
Tissue specificity Lens epithelium ,Peripheral blood ,Placenta ,Rectum ,

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. ,

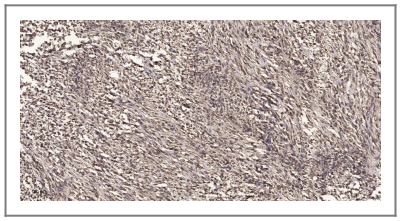
Validation Data



Western Blot analysis of COLO cells using Phospho-VDR (S51) Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



Western blot analysis of lysates from COLO205 cells treated with Insulin 0.01U/ml 15', using Vitamin D3 Receptor (Phospho-Ser51) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human small intestinal carcinoma tissue. 1,primary Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antigen retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200

Contact information

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Please scan the QR code to access additional product information:
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