

For Research Use Only

# Vitamin D binding protein Monoclonal antibody



Catalog Number: 66175-1-Ig **1 Publications**

## Basic Information

<b>Catalog Number:</b> 66175-1-Ig	<b>GenBank Accession Number:</b> BC057228	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2638	<b>CloneNo.:</b> 1E4D10
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P02774	<b>Recommended Dilutions:</b> WB 1:1000-1:8000 IHC 1:250-1:1000
<b>Isotype:</b> IgG1	<b>Full Name:</b> group-specific component (vitamin D binding protein)	
<b>Immunogen Catalog Number:</b> AG9803	<b>Calculated MW:</b> 474 aa, 53 kDa	
	<b>Observed MW:</b> 52-58 kDa	

## Applications

**Tested Applications:**  
WB, IHC, FC (Intra), ELISA

**Cited Applications:**  
WB, IHC, CoIP, ChIP, IF

**Species Specificity:**  
human

**Cited Species:**  
mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : human testis tissue,

IHC : human liver tissue, human colon cancer tissue, human liver cancer tissue

## Background Information

Vitamin D binding protein is a sparsely glycosylated serum protein responsible for highly specific binding and tissue-specific delivery of vitamin D and its metabolites. In addition, it is also an actin scavenger, and is the precursor to the immunomodulatory protein, Gc-MAF. Vitamin D binding protein has been proposed to have significant roles in C5a chemotaxis, osteoclast development and possibly in macrophage activation/recruitment.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lu-Ning Qin	38164156	Theranostics	IHC,IF,WB,CoIP,ChIP

## Storage

**Storage:**

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

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

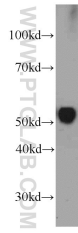
For technical support and original validation data for this product please contact:

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

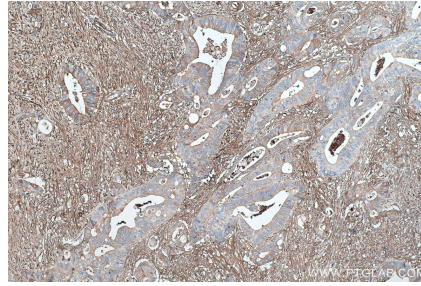
E: proteintech@ptglab.com  
W: ptglab.com

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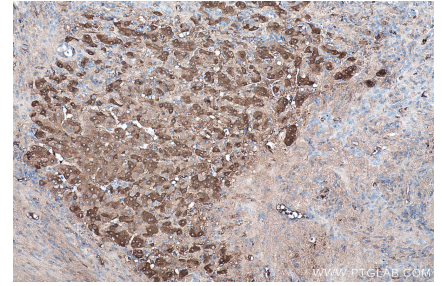
## Selected Validation Data



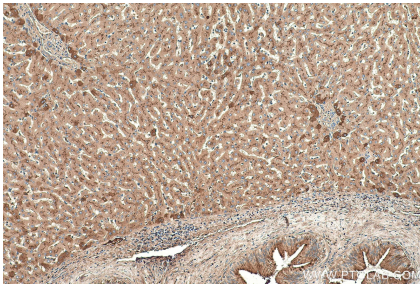
human testis tissue were subjected to SDS PAGE followed by western blot with 66175-1-Ig (Vitamin D binding protein antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



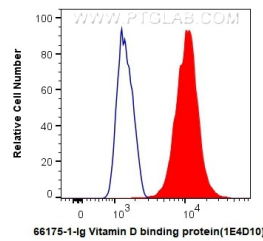
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66175-1-Ig (Vitamin D binding protein antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66175-1-Ig (Vitamin D binding protein antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66175-1-Ig (Vitamin D binding protein antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> U-937 cells were intracellularly stained with 0.4 ug Anti-Human Vitamin D binding protein (66175-1-Ig, Clone:1E4D10) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).