

For Research Use Only

Vitamin D binding protein Monoclonal antibody

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



Basic Information

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

Applications

Tested Applications: WB, IHC, FC (Intra), ELISA	Positive Controls:
Cited Applications: WB, IHC, CoIP, ChIP, IF	WB : human testis tissue,
Species Specificity: human	IHC : human liver tissue, human colon cancer tissue, human liver cancer tissue
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	

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

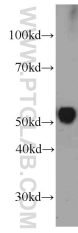
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

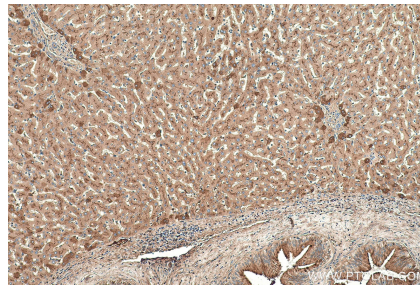
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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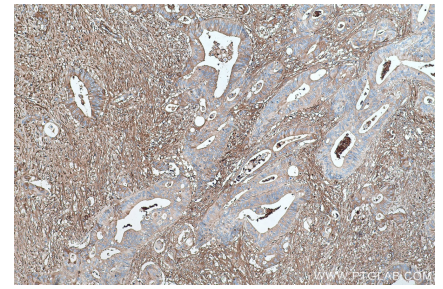
Selected Validation Data



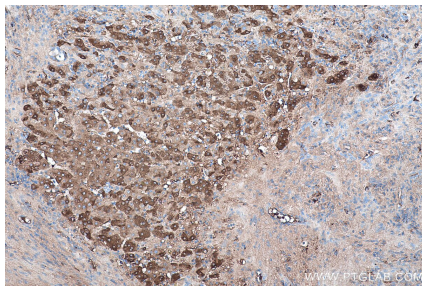
human testis tissue were subjected to SDS PAGE followed by western blot with 66175-1-Ig (Vitamin D binding protein antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



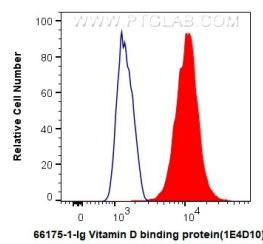
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66175-1-Ig (Vitamin D binding protein antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1×10^6 U-937 cells were intracellularly stained with 0.4 μ g Anti-Human Vitamin D binding protein (66175-1-Ig, Clone:1E4D10) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 μ g Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).