For Research Use Only

Vitamin D binding protein Polyclonal antibody

Catalog Number:16922-1-AP

12 Publications

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Basic Information

Catalog Number:
16922-1-AP

Size:
150ul , Concentration: 500 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10286

GenBank Accession Number:
BC057228

GeneID (NCBI):
2638

UNIPROT ID:
P02774

Full Name:
group-specific component (vitamin D binding protein)

Calculated MW:
474 aa, 53 kDa

Observed MW:
52-58 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, chicken

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 blood tissue, human blood, rat eye tissue, mouse eye tissue, PC-3 cells, human plasma, mouse testis tissue

IHC : human liver tissue, human normal colon

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
Manish Kumar Yadav	36284768	Mol Ther Methods Clin Dev	WB
Yang Lu	26791873	Proteomics	
Yichen Guo	28656274	Mol Med Rep	WB,IHC

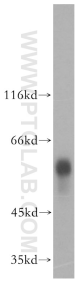
Storage

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

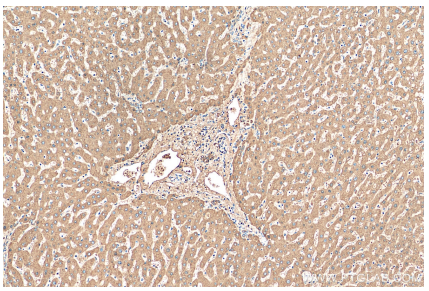
*** 20ul sizes contain 0.1% BSA

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

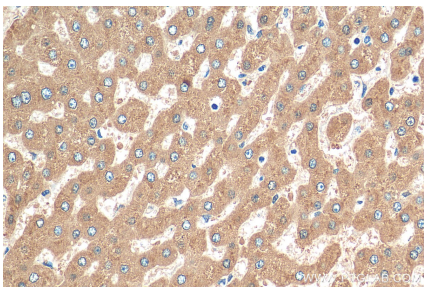
Selected Validation Data



human blood were subjected to SDS PAGE followed by western blot with 16922-1-AP (vitamin D binding protein antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.

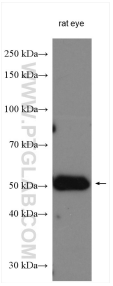


Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 16922-1-AP (Vitamin D binding protein antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

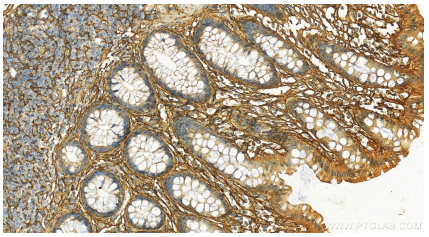


Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 16922-1-AP (Vitamin D binding protein antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

human blood tissue were subjected to SDS PAGE followed by western blot with 16922-1-AP (vitamin D binding protein antibody at dilution of 1:1500 incubated at room temperature for 1.5 hours.



rat eye tissue were subjected to SDS PAGE followed by western blot with 16922-1-AP (Vitamin D binding protein antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 16922-1-AP (Vitamin D binding protein antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).