10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Vitamin D Binding protein Picoband Antibody

Catalog # ABO13011

Specification

Anti-Vitamin D Binding protein Picoband Antibody - Product Information

Application	**WB, IHC-P, E**
Primary Accession	GC: P02774
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Vitamin D Binding protein detection. Tested with WB, IHC-P, Direct ELISA in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Vitamin D Binding protein Picoband Antibody - Additional Information

Application Details
Western blot, 0.1-0.5 µg/ml
 Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml
 Direct ELISA, 0.1-0.5 µg/ml

Subcellular Localization
Secreted.

Tissue Specificity
Expressed in the liver. Found in plasma, ascites, cerebrospinal fluid and urine.

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E. coli-derived human Vitamin D Binding protein recombinant protein (Position: L17-E256).

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time. Avoid repeated freezing and thawing.**

Anti-Vitamin D Binding protein Picoband Antibody - Protein Information

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Anti-Vitamin D Binding protein Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Vitamin D Binding protein Picoband Antibody - Images

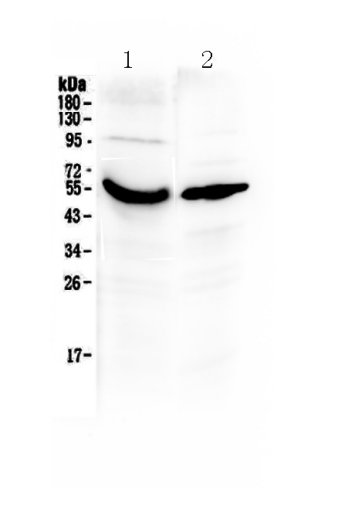

Figure 1. Western blot analysis of Vitamin D Binding protein using anti-Vitamin D Binding protein antibody (ABO13011). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human placenta tissue lysates,Lane 2: human A431 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Vitamin D Binding protein antigen affinity purified polyclonal antibody (Catalog # ABO13011) at 0.5 ug/mL overnight at 4℃, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Vitamin D Binding protein at approximately 53KD. The expected band size for Vitamin D Binding protein is at 53KD.

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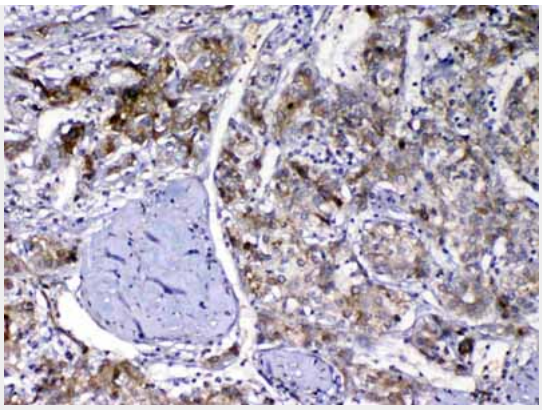

Figure 2. IHC analysis of Vitamin D Binding protein using anti-Vitamin D Binding protein antibody (ABO13011).Vitamin D Binding protein was detected in paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Vitamin D Binding protein Antibody (ABO13011) overnight at 4℃. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37℃. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

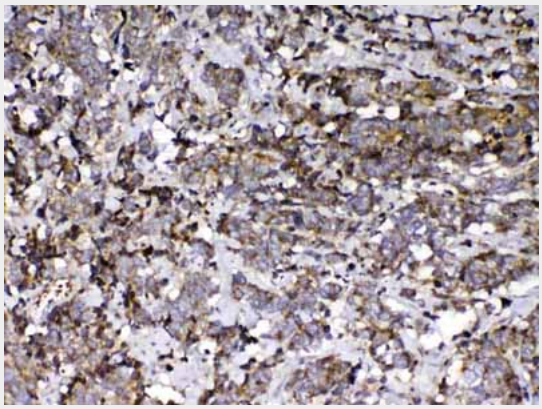

Figure 3. IHC analysis of Vitamin D Binding protein using anti-Vitamin D Binding protein antibody (ABO13011).Vitamin D Binding protein was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Vitamin D Binding protein Antibody (ABO13011) overnight at 4℃. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37℃. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

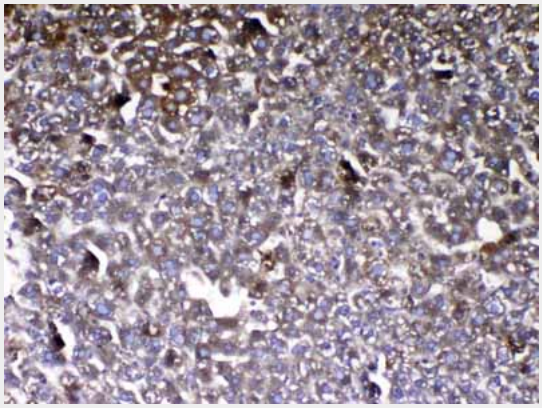

Figure 4. IHC analysis of Vitamin D Binding protein using anti-Vitamin D Binding protein antibody (ABO13011).Vitamin D Binding protein was detected in paraffin-embedded section of mouse liver tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Vitamin D Binding protein Antibody (ABO13011) overnight at 4℃. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37℃. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

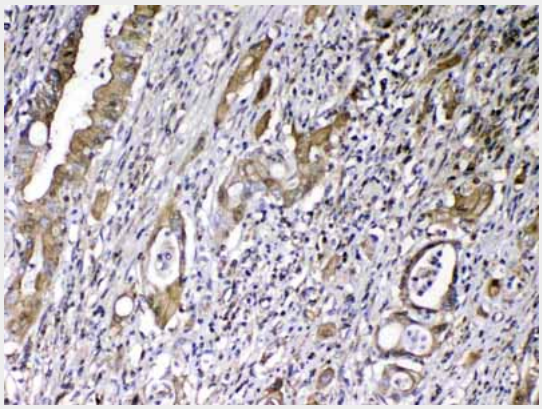

Figure 5. IHC analysis of Vitamin D Binding protein using anti-Vitamin D Binding protein antibody (ABO13011).Vitamin D Binding protein was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Vitamin D Binding protein Antibody (ABO13011) overnight at 4℃. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37℃. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

Anti-Vitamin D Binding protein Picoband Antibody - Background

Vitamin D-binding protein, also/originally known as gc-globulin (group-specific component), is a protein that in humans is encoded by the GC gene.The protein encoded by this gene belongs to the albumin gene family. It is a multifunctional protein found in plasma, ascitic fluid, cerebrospinal fluid and on the surface of many cell types. It binds to vitamin D and its plasma metabolites and transports them to target tissues.