

Anti-Vitamin D Binding protein/Gc Antibody Picoband®

Catalog Number: A03364-2

About Gc

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.

Overview

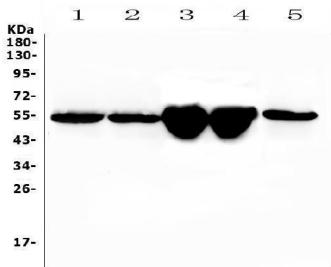
Product Name	Anti-Vitamin D Binding protein/Gc Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Vitamin D Binding protein/Gc Antibody Picoband® catalog # A03364-2. Tested in ELISA, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P21614

Technical Details

Immunogen	E. coli-derived mouse Gc recombinant protein (Position: L17-E256).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml

	ELISA, 0.1-0.5ug/ml
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Anti-Vitamin D Binding protein/Gc Antibody Picoband® (A03364-2) Images



Western blot analysis of Gc using anti-Gc antibody (A03364-2). 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: rat liver tissue lysate, Lane 2: rat liver tissue lysate, Lane 3: mouse liver tissue lysate, Lane 4: mouse liver tissue lysate, Lane 5: human placenta tissue lysate. 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-Gc antigen affinity purified polyclonal antibody (Catalog # A03364-2) at 0.5 ug/mL overnight at 4°C, 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 (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Gc at approximately 53KD. The expected band size for Gc is at 53KD.

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