

## ARG40921 anti-DBP / Vitamin D binding protein antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes DBP / Vitamin D binding protein
Tested Reactivity	Hu, Ms
Predict Reactivity	Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	DBP / Vitamin D binding protein
Species	Human
Immunogen	Recombinant protein corresponding to L17-E256 of Human DBP.
Conjugation	Un-conjugated
Alternate Names	GRD3; DBP/GC; HEL-S-51; VDBG; VDB; Gc-globulin; DBP; VDBP; Vitamin D-binding protein; Group-specific component

### Application Instructions

Application table	Application	Dilution
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	<p>IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>	

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

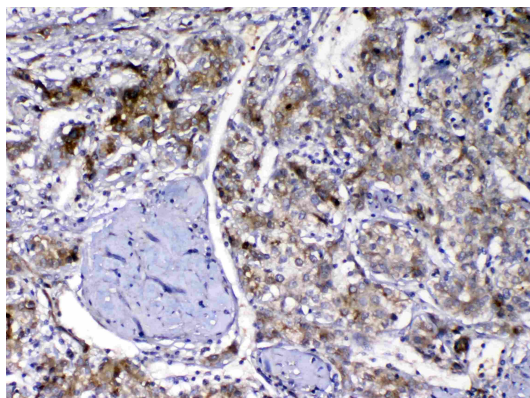
#### Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

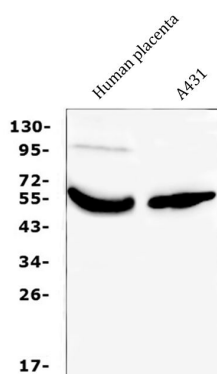
Gene Symbol	GC
Gene Full Name	group-specific component (vitamin D binding protein)
Background	The protein encoded by this gene belongs to the albumin gene family. It is a multifunctional protein found in plasma, ascitic fluid, cerebrospinal fluid and on the surface of many cell types. It binds to vitamin D and its plasma metabolites and transports them to target tissues. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Feb 2011]
Function	Multifunctional protein found in plasma, ascitic fluid, cerebrospinal fluid, and urine and on the surface of many cell types. In plasma, it carries the vitamin D sterols and prevents polymerization of actin by binding its monomers. DBP associates with membrane-bound immunoglobulin on the surface of B-lymphocytes and with IgG Fc receptor on the membranes of T-lymphocytes. [UniProt]
Calculated Mw	53 kDa
PTM	Allele GC*1S is O-glycosylated at Thr-436 (PubMed:20079467). The trisaccharide sugar moiety can be modified by the successive removal of neuraminic acid and galactose leaving an O-linked N-acetyl-galactosamine. This conversion is thought to produce a macrophage-activating factor (Gc-MAF). Only a minor proportion of plasma GC is O-glycosylated (PubMed:17360250). The potential N-glycosylation site predicted at Asn-288 is thought to be nonglycosylated. [UniProt]
Cellular Localization	Secreted. [UniProt]

## Images



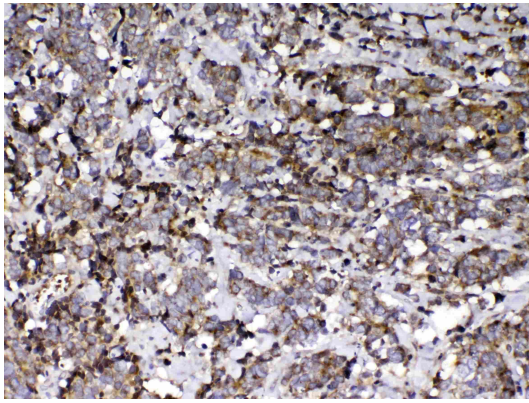
ARG40921 anti-DBP / Vitamin D binding protein antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG40921 anti-DBP / Vitamin D binding protein antibody at 1 µg/ml dilution, overnight at 4°C.



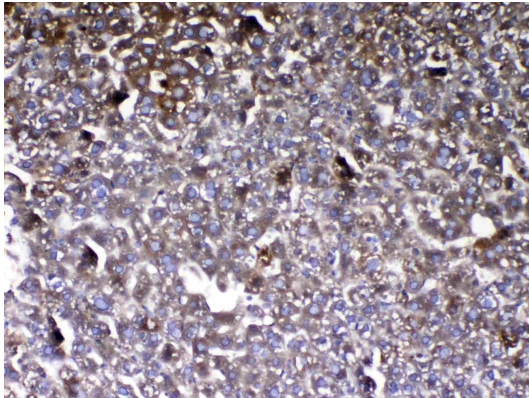
ARG40921 anti-DBP / Vitamin D binding protein antibody WB image

Western blot: 50 µg of samples under reducing conditions. Human placenta and A431 whole cell lysates stained with ARG40921 anti-DBP / Vitamin D binding protein antibody at 0.5 µg/ml, overnight at 4°C.



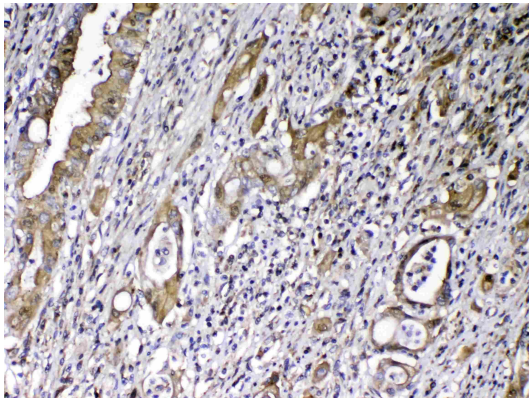
ARG40921 anti-DBP / Vitamin D binding protein antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG40921 anti-DBP / Vitamin D binding protein antibody at 1 µg/ml dilution, overnight at 4°C.



ARG40921 anti-DBP / Vitamin D binding protein antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse liver tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG40921 anti-DBP / Vitamin D binding protein antibody at 1 µg/ml dilution, overnight at 4°C.



ARG40921 anti-DBP / Vitamin D binding protein antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human rectal cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG40921 anti-DBP / Vitamin D binding protein antibody at 1 µg/ml dilution, overnight at 4°C.