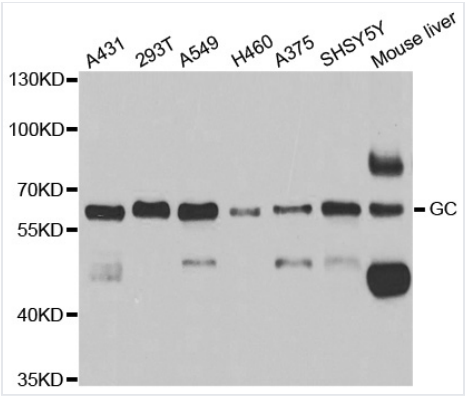
GC Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GC, Polyclonal Antibody
Full Product Name	GC antibody
Product Gene Name	anti-GC antibody
Product Synonym Names	DBP; GRD3; VDBG; VDBP; DBP/GC; HEL-S-51
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous level of total GC antibody.
Preparation and Storage	Store at -20 degree C
Molecular Weight	55,123 Da
OMIM	139200
3D Structure	ModBase 3D Structure for P02774
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human GC.
Target Name	GC
Product Categories/Family for anti-GC antibody	Total protein Ab
Applications Tested/Suitable for anti-GC antibody	Western Blot (WB)
Application Notes for anti-GC antibody	Western blotting: 1:500 - 1:2000
Related Product Information for anti-GC antibody	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.
Other Notes	Small volumes of anti-GC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GC purchase	MBS9402110 is an antibody targeting GC. Also known as GC antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-GC antibody
Western blot analysis of extracts of various cell lines, using GC antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GC. It may not necessarily be applicable to this product.

NCBI GI #	32483410
NCBI GeneID	2638
NCBI Accession #	NP_000574.2
UniProt Primary Accession #	P02774
UniProt Secondary Accession #	Q16309; Q16310; Q53F31; Q6GTG1; B4DPP2; D6RAK8
UniProt Related Accession #	P02774
GenBank Nucleotide #	NM_000583.3
NCBI Official Full Name	vitamin D-binding protein isoform 1
NCBI Official Synonym Full Names	group-specific component (vitamin D binding protein)
NCBI Official Symbol	GC
NCBI Official Synonym Symbols	DBP; GRD3; VDBG; VDBP; DBP/GC; HEL-S-51
UniProt Protein Name	Vitamin D-binding protein
UniProt Synonym Protein Names	Gc-globulin; Group-specific component
Protein Family	Envelope glycoprotein
UniProt Gene Name	GC
UniProt Synonym Gene Names	DBP; VDB
UniProt Entry Name	VTDB_HUMAN
NCBI Protein Information	vitamin D-binding protein

UniProt Comments for GC	GC: 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. Belongs to the ALB/AFP/VDB family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 4q12-q13 Cellular Component: extracellular space; lysosomal lumen; extracellular region; cytosol Molecular Function: vitamin D binding; actin binding; vitamin transporter activity Biological Process: steroid metabolic process; vitamin transport; vitamin D metabolic process Disease: Graves Disease, Susceptibility To, 1
Research Articles on GC	**1.** A two-staged analysis demonstrated that rs2282679 in GC was associated with serum 25(OH)D concentration and could be a risk factor for hip fracture in Japanese rheumatoid arthritis patients.
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