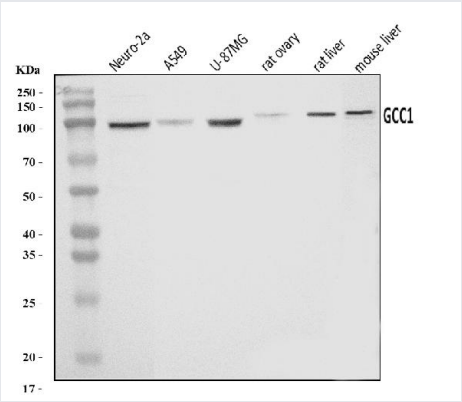
GCC1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

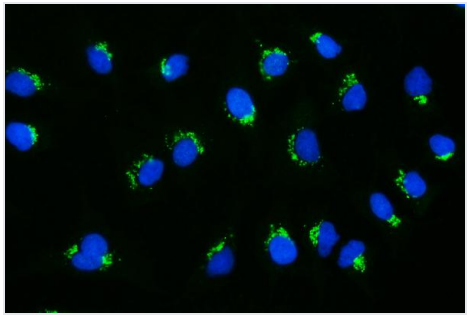
Product Name	GCC1, Polyclonal Antibody
Full Product Name	Anti-GCC1 Antibody Picoband
Product Gene Name	anti-GCC1 antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (lot specific)
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.
Molecular Weight	87,811 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (127220682..127225654, complement). Location: 7q32.1
OMIM	607418
3D Structure	ModBase 3D Structure for Q96CN9
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human GCC1 recombinant protein (Position: E22-L763).
Product Categories/Family for anti-GCC1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-GCC1 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), ELISA (EIA)
Application Notes for anti-GCC1 antibody	WB: 0.25-0.5 ug/ml, Human, Mouse, Rat ICC/IF: 5 ug/ml, Human Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG (#MBS176460) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (#MBS176453) for ICC.
Related Product Information for anti-GCC1 antibody	GRIP and coiled-coil domain-containing protein 1 is a protein that in humans is encoded by the GCC1 gene. The protein encoded by this gene is a peripheral membrane protein. It is sensitive to brefeldin A. This encoded protein contains a GRIP domain which is thought to be used in targeting. It may play a role in the organization of trans-Golgi network subcompartment involved with membrane transport.
Other Notes	Small volumes of anti-GCC1 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 GCC1 purchase	MBS1755809 is an antibody targeting GCC1. Also known as Anti-GCC1 Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-GCC1 antibody

Figure 1. Western blot analysis of GCC1 using anti-GCC1 antibody (MBS1755809).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 30 ug of sample under reducing conditions.Lane 1: mouse Neuro-2a whole cell lysates,Lane 2: human A549 whole cell lysates,Lane 3: human U-87MG whole cell lysates,Lane 4: rat ovary tissue lysates,Lane 5: rat liver tissue lysates,Lane 6: mouse liver tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-GCC1 antigen affinity purified polyclonal antibody (#MBS1755809) at 0.5 ug/mL overnight at 4 degree 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 1:5000 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 GCC1 at approximately 100 kDa. The expected band size for GCC1 is at 100 kDa.



Immunofluorescence (IF) of anti-GCC1 antibody

Figure 2. IF analysis of GCC1 using anti-GCC1 antibody (MBS1755809).GCC1 was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-GCC1 Antibody (MBS1755809) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG (MBS177405) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GCC1. It may not necessarily be applicable to this product.

NCBI GI #	33874076
NCBI GeneID	79571
NCBI Accession #	AAH08902.2
UniProt Primary Accession #	Q96CN9
UniProt Secondary Accession #	Q9H6N7
UniProt Related Accession #	Q96CN9
NCBI Official Full Name	GCC1 protein
NCBI Official Synonym Full Names	GRIP and coiled-coil domain containing 1
NCBI Official Symbol	GCC1
NCBI Official Synonym Symbols	GCC1P; GCC88
UniProt Protein Name	GRIP and coiled-coil domain-containing protein 1
UniProt Synonym Protein Names	Golgi coiled-coil protein 1
Protein Family	GRIP and coiled-coil domain-containing protein
UniProt Gene Name	GCC1
UniProt Entry Name	GCC1_HUMAN

NCBI Protein Information	GRIP and coiled-coil domain-containing protein 1; golgi coiled-coil 1; golgi coiled-coil protein 1; peripheral membrane Golgi protein
NCBI Summary for GCC1	The protein encoded by this gene is a peripheral membrane protein. It is sensitive to brefeldin A. This encoded protein contains a GRIP domain which is thought to be used in targeting. It may play a role in the organization of trans-Golgi network subcompartment involved with membrane transport. [provided by RefSeq, Jul 2008]
UniProt Comments for GCC1	GCC1: Probably involved in maintaining Golgi structure. Protein type: Vesicle Chromosomal Location of Human Ortholog: 7q32.1 Cellular Component: Golgi membrane; Golgi apparatus; cytoplasm; plasma membrane Molecular Function: protein binding Biological Process: protein targeting to Golgi
Research Articles on GCC1	**1.** identified an essential role for GCC88 in the localization of TGN fusion machinery for transport from early endosomes to the trans-Golgi network
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