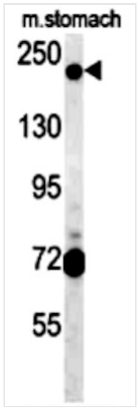
GCC2 Antibody – Rabbit Polyclonal

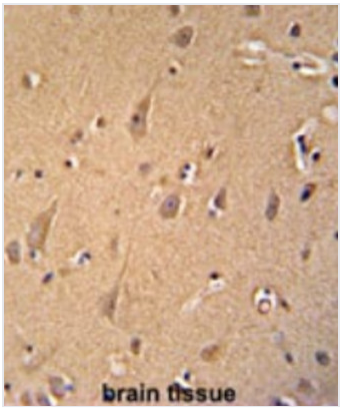
PRODUCT OVERVIEW

Product Name	GCC2, Polyclonal Antibody
Full Product Name	GCC2 Antibody (C-term)
Product Gene Name	anti-GCC2 antibody
Product Synonym Names	GRIP and coiled-coil domain-containing protein 2; 185 kDa Golgi coiled-coil protein; GCC185; CLL-associated antigen KW-11; CTCL tumor antigen se1-1; Ran-binding protein 2-like 4; RanBP2L4; Renal carcinoma antigen NY-REN-53; GCC2; KIAA0336; RANBP2L4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, mouse (Predicted Reactivity: Rat)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Specificity	This GCC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1581-1609 amino acids from the C-terminal region of human GCC2.
Preparation and Storage	Maintain refrigerated at 2-8 degree for up to 2 weeks. For long term storage store at -20 degree in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	GCC2 peptide (MBS9217477) is used for blocking the activity of GCC2 antibody (MBS9210728)
Molecular Weight	Calculated MW: 195910
Immunogen Sequence Positions	1581-1609
OMIM	612711
3D Structure	ModBase 3D Structure for Q8IWJ2
Function	Golgin which probably tethers transport vesicles to the trans-Golgi network (TGN) and regulates vesicular transport between the endosomes and the Golgi. As a RAB9A effector it is involved in recycling of the mannose 6-phosphate receptor from the late endosomes to the TGN. May also play a role in transport between the recycling endosomes and the Golgi. Required for maintenance of the Golgi structure, it is involved in the biogenesis of noncentrosomal, Golgi-associated microtubules through recruitment of CLASP1 and CLASP2.
Cellular Location	Cytoplasm. Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein.
Tissue Location	Ubiquitous
Product Categories/Family for anti-GCC2 antibody	Signal Transduction
Applications Tested/Suitable for anti-GCC2 antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC-P)
Application Notes for anti-GCC2 antibody	WB~~1:1000 IHC-P~~1:50~100
Related Product Information for anti-GCC2 antibody	The protein encoded by this gene is a peripheral membrane protein localized to the trans-Golgi network. It is sensitive to brefeldin A. This encoded protein contains a GRIP domain which is thought to be used in targeting. Alternative splicing results in multiple transcript variants.

Product References and Citations for anti-GCC2 antibody	Houghton, F.J., et al. Cell 138(4):787-794(2009) Hayes, G.L., et al. Mol. Biol. Cell 20(1):209-217(2009) Burguete, A.S., et al. Cell 132(2):286-298(2008) Efimov, A., et al. Dev. Cell 12(6):917-930(2007) Derby, M.C., et al. Traffic 8(6):758-773(2007)
Other Notes	Small volumes of anti-GCC2 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 GCC2 purchase	MBS9210728 is an antibody targeting GCC2. Also known as GCC2 Antibody (C-term). Reactive in Human, mouse (Predicted Reactivity: Rat). Host: Rabbit.



Western Blot (WB) of anti-GCC2 antibody
GCC2 Antibody (C-term) (MBS9210728) western blot analysis in mouse stomach tissue lysates (15ug/lane).This demonstrates the GCC2 antibody detected GCC2 protein (arrow).



Immunohistochemistry (IHC) of anti-GCC2 antibody
GCC2 antibody (C-term) (MBS9210728) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the GCC2 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GCC2. It may not necessarily be applicable to this product.

NCBI GI #	31563507
NCBI GeneID	9648
NCBI Accession #	NP_852118.1
UniProt Primary Accession #	Q8IWJ2
UniProt Secondary Accession #	O15045; Q4ZG46; Q8TDH3; Q9H2G8; A6H8X8
UniProt Related Accession #	Q8IWJ2
GenBank Nucleotide #	NM_181453.3
NCBI Official Full Name	GRIP and coiled-coil domain-containing protein 2
NCBI Official Synonym Full Names	GRIP and coiled-coil domain containing 2
NCBI Official Symbol	GCC2
NCBI Official Synonym Symbols	REN53; GCC185; RANBP2L4
UniProt Protein Name	GRIP and coiled-coil domain-containing protein 2
UniProt Synonym Protein Names	185 kDa Golgi coiled-coil protein; GCC185; CLL-associated antigen KW-11; CTCL tumor antigen se1-1; Ran-binding protein 2-like 4; RanBP2L4; Renal carcinoma antigen NY-REN-53
UniProt Gene Name	GCC2
UniProt Synonym Gene Names	KIAA0336; RANBP2L4; GCC185; RanBP2L4

UniProt Entry Name	GCC2_HUMAN
NCBI Protein Information	GRIP and coiled-coil domain-containing protein 2
UniProt Comments for GCC2	GCC2: Golgin which probably tethers transport vesicles to the trans-Golgi network (TGN) and regulates vesicular transport between the endosomes and the Golgi. As a RAB9A effector it is involved in recycling of the mannose 6-phosphate receptor from the late endosomes to the TGN. May also play a role in transport between the recycling endosomes and the Golgi. Required for maintenance of the Golgi structure, it is involved in the biogenesis of noncentrosomal, Golgi-associated microtubules through recruitment of CLASP1 and CLASP2. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, peripheral Chromosomal Location of Human Ortholog: 2q12.3 Cellular Component: nucleoplasm; Golgi apparatus; membrane; cytoplasm; trans-Golgi network; nucleus Molecular Function: identical protein binding; protein binding Biological Process: microtubule organizing center organization and biogenesis; protein targeting to lysosome; protein localization in Golgi apparatus; Golgi to plasma membrane protein transport; protein targeting to Golgi; retrograde transport, endosome to Golgi
Research Articles on GCC2	**1.** Deletion of the ARL4A-interacting region of GCC185 results in inability to maintain Golgi structure and modulate endosome-to-Golgi transport.
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