

For Research Use Only

GCC2 Polyclonal antibody

Catalog Number: 32217-1-AP



Basic Information

Catalog Number: 32217-1-AP	GenBank Accession Number: BC146789	Purification Method: Antigen affinity Purification
Size: 150ul , Concentration: 330 ug/ml by Nanodrop;	GeneID (NCBI): 9648	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:2000-1:8000
Source: Rabbit	UNIPROT ID: Q8IWI2	
Isotype: IgG	Full Name: GRIP and coiled-coil domain containing 2	
Immunogen Catalog Number: AG17535	Calculated MW: 1583 aa, 185 kDa	
	Observed MW: 200 kDa	

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293T cells, HeLa cells, Jurkat cells, Raji cells

IHC : human stomach cancer tissue,

Background Information

The GCC2 protein, fully named GRIP and Coiled-Coil Domain-Containing Protein 2, is a key adaptor protein in the intracellular Golgi-endosomal membrane transport system. It specifically anchors to the Golgi membrane via its GRIP domain and is primarily responsible for mediating retrograde vesicular transport from endosomes to the Golgi apparatus, participating in the recycling and sorting of various cargo proteins, such as the mannose-6-phosphate receptor. Recent studies have revealed that GCC2 regulates the subcellular localization of the GATOR complex, thereby acting as an important upstream regulator of the mTORC1 signaling pathway, which influences cell growth, metabolism, and autophagy. Dysfunction of GCC2 is closely associated with neurodevelopmental disorders and tumorigenesis, underscoring its significance in cell biology and disease research.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

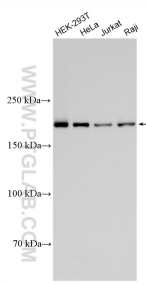
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

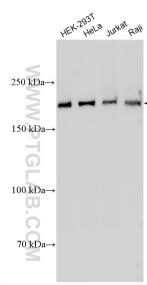
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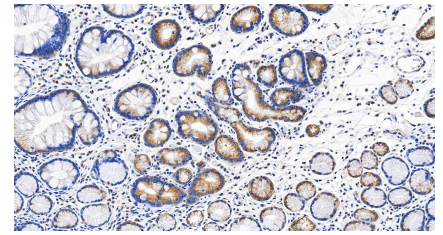
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 32217-1-AP (GCC2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 32217-1-AP (GCC2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 32217-1-AP (GCC2 antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).