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Rabbit Anti-GCP6 antibody

SL13321R

Product Name:	GCP6
Chinese Name:	γ-微管蛋白GCP6抗体
Alias:	GCP 6; TUBGCP6; tubulin, gamma complex associated protein 6; GCP6_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	200kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GCP6:651-750/1819
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The g-Tubulin complex is composed of g Tubulin and the g-Tubulin complex-associated proteins GCP2, GCP3, GCP4, GCP5 and GCP6, all of which are essential components of microtubule organizing centers. g-Tubulin complex components are localized to both the centrosome, where they are involved in microtubule nucleation, and to the cytoplasm, where they exist as soluble complexes that can be recruited to the centrosome as needed. Although the GCP proteins are related, they have distinct roles which contribute to the proper function of the g-Tubulin complex. GCP6 (g-Tubulin complex

component 6), also known as TUBGCP6, localizes to the centrosome and is a ubiquitously expressed 1,819 amino acid member of the g-Tubulin complex. Unlike GCP3 and GCP2, GCP6 is not well conserved among eukaryotes. Three isoforms of GCP6 exist due to alternative splicing events.

Function:
The protein encoded by this gene is part of a large multisubunit complex required for microtubule nucleation at the centrosome.

Subunit:
Gamma-tubulin complex is composed of gamma-tubulin, TUBGCP2, TUBGCP3, TUBGCP4, TUBGCP5 and TUBGCP6.

Subcellular Location:
Cytoplasm, cytoskeleton, centrosome.

DISEASE:
Defects in TUBGCP6 are the cause of microcephaly with chorioretinopathy, autosomal recessive (MCPHCR) [MIM:251270]. A syndrome characterized by microcephaly, cognitive impairment, underdeveloped retina and choroid, and epilepsy in some patients. The more anterior parts of the retina, near the periphery and pars plana, have a grayish hue and diminutive vasculature similar to retinopathy of prematurity. Visual impairment becomes evident during the first year of life.

Similarity:
Belongs to the TUBGCP family.

SWISS:
Q96RT7

Gene ID:
85378

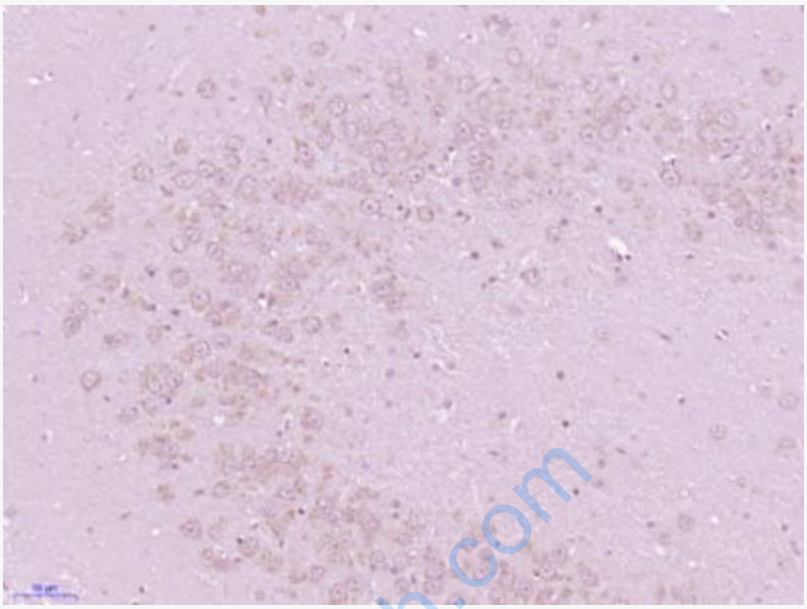
Database links:

Entrez Gene: 85378Human

Omim: 610053Human

SwissProt: Q96RT7Human

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:	 Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GCP6) Polyclonal Antibody, Unconjugated (SL13321R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.