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GCP3 Rabbit pAb

Catalog # AP99291

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q96CW5
Other Accession	Q96CW5
Predicted	Rat, Human, Mouse, Chicken, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	103571
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GCP3
Epitope Specificity	401-500/907
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the GCP family.
SUBUNIT	Gamma-tubulin complex is composed of gamma-tubulin, TUBGCP2, TUBGCP3, TUBGCP4, TUBGCP5 and TUBGCP6. Interacts with CDK5RAP2; the interaction is leading to centrosomal localization of TUBGCP3 and CDK5RAP2.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The Gamma-Tubulin complex is composed of Gamma Tubulin and the Gamma-Tubulin complex-associated proteins GCP2, GCP3, GCP4, GCP5 and GCP6, all of which are essential components of microtubule organizing centers. Gamma-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 Gamma-Tubulin complex. GCP3 (Gamma-Tubulin complex component 3), also known as TUBGCP3 or SPBC98, localizes to the centrosome and is a ubiquitously expressed 907 amino acid member of the Gamma-Tubulin complex. Like GCP2 and Gamma Tubulin, GCP3 is conserved in all eukaryotes, suggesting that it is part of a core unit involved in eukaryotic microtubule nucleation. Three isoforms of GCP3 exist due to alternative splicing events.

Additional Information

Gene ID	10426
Other Names	GCP3_HUMAN; TUBGCP3; GCP-3; hGCP3; Gamma-ring complex protein 104 kDa (h104p | hGrip104); Spindle pole body protein Spc98 homolog (hSpc98); GCP3; GCP3_MOUSE; tubulin gamma complex component 3; tubulin, gamma complex associated protein 3; tubulin gamma complex associated protein 3; spindle pole body protein

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	TUBGCP3
Synonyms	GCP3
Function	Component of the gamma-tubulin ring complex (gTuRC) which mediates microtubule nucleation (PubMed:38305685, PubMed:38609661, PubMed:39321809, PubMed:9566967). The gTuRC regulates the minus-end nucleation of alpha-beta tubulin heterodimers that grow into microtubule protafilaments, a critical step in centrosome duplication and spindle formation (PubMed:38305685, PubMed:38609661, PubMed:39321809).
Cellular Location	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome
Tissue Location	Ubiquitously expressed.

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