

Rabbit Anti-GCP3/PE Conjugated antibody

SL13277R-PE

Product Name	Anti-GCP3/PE
Chinese Name	PE 标记的 γ -微管蛋白复合物 GCP3 抗体
Alias	Gamma tubulin complex component 3; Gamma-ring complex protein 104 kDa; Gamma-tubulin complex component 3; GCP-3; GCP3; GCP3_HUMAN; h104p; hGCP3; hGrip104; hSpc98; SPBC98; Spc98p; Spindle pole body protein Spc98 homolog; TUBGCP3; Tubulin gamma complex associated protein 3.
Research Area	Cell biology Signal transduction Cytoskeleton
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Human,Mouse,Rat,Chicken,Cow,Sheep,Xenopus laevis) ICC/IF=1:50-200,IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	104kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human GCP3/Gamma-tubulin complex component 3
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	background: 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.

Function:

Gamma-tubulin complex is necessary for microtubule nucleation at the centrosome.

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.

Subcellular Location:

Cytoplasm, cytoskeleton, centrosome.

Tissue Specificity:

Ubiquitously expressed.

Similarity:

Belongs to the GCP family.

Database links:

[Entrez Gene: 10426](#) Human

[Entrez Gene: 259279](#) Mouse

[SwissProt: Q96CW5](#) Human

[SwissProt: P58854](#) Mouse

[Unigene: 224152](#) Huma

Important Note:



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