

GCP4 Rabbit pAb

Catalog # AP100191

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9UGJ1
Other Accession	Q9UGJ1
Predicted	Rat, Pig, Human, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	76089
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GCP4
Epitope Specificity	101-200/667
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 TUBGCP family.
SUBUNIT	Gamma-tubulin complex is composed of gamma-tubulin, TUBGCP2, TUBGCP3, TUBGCP4, TUBGCP5 and TUBGCP6. Interacts with NINL.
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. GCP4 (gamma-tubulin complex component 4), also known as TUBGCP4, is a ubiquitously expressed 667 amino acid member of the gamma-Tubulin complex that localizes to the metaphase spindle during mitosis. In response to proteasome inhibition, GCP4 exhibits increased accumulation at the pericentriolar material where it participates in microtubule organization and nucleation.

Additional Information

Gene ID	27229
Other Names	76P; GCP-4; GCP4; Grip76; MCCRP3; 4932441P04Rik; D2Ertd435e; GCP4_HUMAN; TUBGCP4; hGCP4; Gamma-ring complex protein 76 kDa (h76p hGrip76); GCP4_MOUSE; tubulin gamma complex component 4; tubulin, gamma complex associated protein 4; tubulin gamma complex associated protein 4; gamma-tubulin complex protein 4; gamma-ring complex protein 76 kDa

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
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	TUBGCP4
Synonyms	76P, GCP4
Function	Component of the gamma-tubulin ring complex (gTuRC) which mediates microtubule nucleation (PubMed: 38305685 , PubMed: 38609661 , PubMed: 39321809). The gTuRC regulates the minus-end nucleation of alpha-beta tubulin heterodimers that grow into microtubule protofilaments, 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.