

Gamma-tubulin Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51592

Product Information

Application	WB, IHC-P
Primary Accession	P23258
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51170

Additional Information

Gene ID	7283
Other Names	Tubulin gamma-1 chain, Gamma-1-tubulin, Gamma-tubulin complex component 1, GCP-1, TUBG1, TUBG
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Gamma-tubulin. The exact sequence is proprietary.
Dilution	WB~~1:1000 IHC-P~~N/A
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	TUBG1 (HGNC:12417)
Synonyms	TUBG
Function	Tubulin is the major constituent of microtubules, protein filaments consisting of alpha- and beta-tubulin heterodimers (PubMed: 38305685 , PubMed: 38609661 , PubMed: 39321809). Gamma-tubulin is a key 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. Cytoplasm, cytoskeleton, spindle. Note=Localizes to mitotic spindle microtubules.

Background

Tubulin is the major constituent of microtubules. The gamma chain is found at microtubule organizing centers (MTOC) such as the spindle poles or the centrosome. Pericentriolar matrix component that regulates alpha/beta chain minus-end nucleation, centrosome duplication and spindle formation.

References

Zheng Y.,et al.Cell 65:817-823(1991).

Kalnina N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.

Ebert L.,et al.Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Harris R.A.,et al.Proteomics 2:212-223(2002).

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