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Tubulin gamma Antibody

Rabbit mAb
Catalog # AP90437

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	P23258
Reactivity	Rat, Human, Mouse, Zebrafish, Hamster, Monkey, Chicken, Bovine, Xenopus, Dog
Clonality	Monoclonal
Other Names	Gamma-1-tubulin; Gamma-tubulin complex component 1; GCP-1; TBG1; TUBG; TUBG1; TUBGCP1; Tubulin gamma-1 chain; tubulin, gamma 1; tubulin, gamma polypeptide, gamma tubulin;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	51170

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Tubulin gamma
Description	TUBG1 Tubulin is the major constituent of microtubules. Gamma tubulin is found at microtubule organizing centers (MTOC) such as the spindle poles or the centrosome. Pericentriolar matrix component that regulates alpha/beta tubulin minus-end nucleation, centrosome duplication and spindle formation. Interacts with GCP2 and GCP3. Interacts with B9D2. Interacts with CDK5RAP2;
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

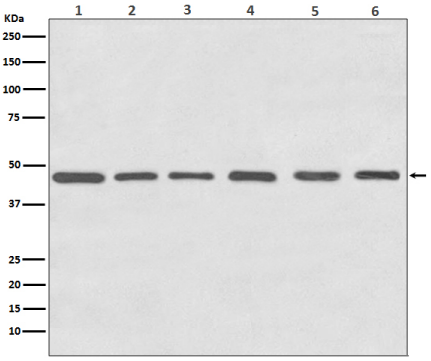
Name	TUBG1 (HGNC:12417)
Synonyms	TUBG
Function	Tubulin is the major constituent of microtubules, protein filaments consisting of alpha- and beta-tubulin heterodimers (PubMed:38305685, PubMed:38609661, PubMed:39321809). Gamma-tubulin is a key component of the gamma-tubulin ring complex (gTuRC) which mediates microtubule nucleation (PubMed:38305685, PubMed:38609661, PubMed:39321809). The gTuRC regulates the minus-end nucleation of alpha-beta tubulin heterodimers that grow into microtubule protafilaments, a critical step in centrosome duplication and spindle formation (PubMed:38305685, PubMed:38609661, PubMed:39321809). Plays a role in sperm morphological development during

late stage spermiogenesis, particularly the anchoring of the sperm head to the tail (PubMed:38870534).

Cellular Location

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle. Note=Localizes to mitotic spindle microtubules.

Images



Western blot analysis of Tubulin gamma expression in (1) HeLa cell lysate; (2) NIH 3T3 cell lysate; (3) C6 cell lysate; (4) Zebrafish lysates; (5) COS-1 cell lysate; (6) MDCK cell lysate.

Image not found : 202311/AP90437-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human breast cancer, using Tubulin gamma Antibody.

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