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Rabbit Anti-gamma tubulin antibody

SL1322R

Product Name:	gamma tubulin
Chinese Name:	微管蛋白γ/Tubulin γ抗体
Alias:	Centrosome Marker; Gamma 1 tubulin; gamma tubulin; gamma-tubulin; Gamma 2 tubulin; Gamma Tubulin 1; Gamma Tubulin 2; Gamma tubulin complex component 1; GCP 1; GCP-1; GCP1; MGC131994; TUBG; TUBG1; TUBG2; Tubulin gamma 1 chain; Tubulin gamma 2 chain; Xgam; TBG1_HUMAN; TBG2_HUMAN; Tubulin gamma-1 chain; Gamma-1-tubulin; Gamma-tubulin complex component 1.
文献引用 PubMed :	**Specific References(1)**|SL1322R has been referenced in 1 publications. **[IF=4.44]**Katzenell, Sarah, and David A. Leib. "Herpes simplex virus and interferon signaling induce novel autophagic clusters in sensory neurons." Journal of Virology (2016): JVI-02908.**Mouse**. PubMed:26912623
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Guinea Pig,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	50kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Tubulin gamma-1 chain:351-451/451
Lsotype:	IgG
Purification:	affinity purified by Protein A

Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% 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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Centrosome Marker Gamma tubulin, a member of the tubulin superfamily, is a ubiquitous and highly conserved protein within the microtubule organizing centre (MTOC). Gamma tubulin is not a component of microtubules, rather it functions as the microtubule nucleator at the MOTC, is responsible for binding microtubule minus ends and mediating the link between microtubles and the centrosome. By binding to the beta tubulin subunit of the tubulin molecule, it establishes the polarity of a microtubule leaving the alpha tubulin subunit exposed at the positive end. The abundance of Gamma tubulin is less than 1% of the level of either alpha or beta tubulin. It shares approximately 28-32% identity with alpha tubulin from various organisms and 32-36% identity with beta tubulins. The detection, localization and characterization of proteins involved in microtubule function is fundamental to the understanding of mitosis, meiosis and the microtubule cytoskeleton. **Function:** 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. **Subunit:** Interacts with TUBGCP2 and TUBGCP3. Interacts with B9D2 (By similarity). Interacts with CDK5RAP2; the interaction is leading to centrosomal localization of TUBG1 and CDK5RAP2. Interacts with PIFO. **Subcellular Location:** Cytoplasm, cytoskeleton, centrosome. **Post-translational modifications:** Phosphorylation at Ser-131 by BRSK1 regulates centrosome duplication, possibly by mediating relocation of gamma-tubulin and its associated proteins from the cytoplasm to the centrosome. **Similarity:** Belongs to the tubulin family. **SWISS:** P23258 **Gene ID:**

7283

Database links:

Entrez Gene: 27175Human

Entrez Gene: 7283Human

Entrez Gene: 103733Mouse

Entrez Gene: 103768Mouse

Entrez Gene: 252921Rat

Entrez Gene: 680991Rat

Omim: 191135Human

Omim: 605785Human

SwissProt: P23258Human

SwissProt: Q9NRH3Human

SwissProt: P83887Mouse

SwissProt: Q8VCK3Mouse

SwissProt: P83888Rat

Unigene: 279669Human

Unigene: 708059Human

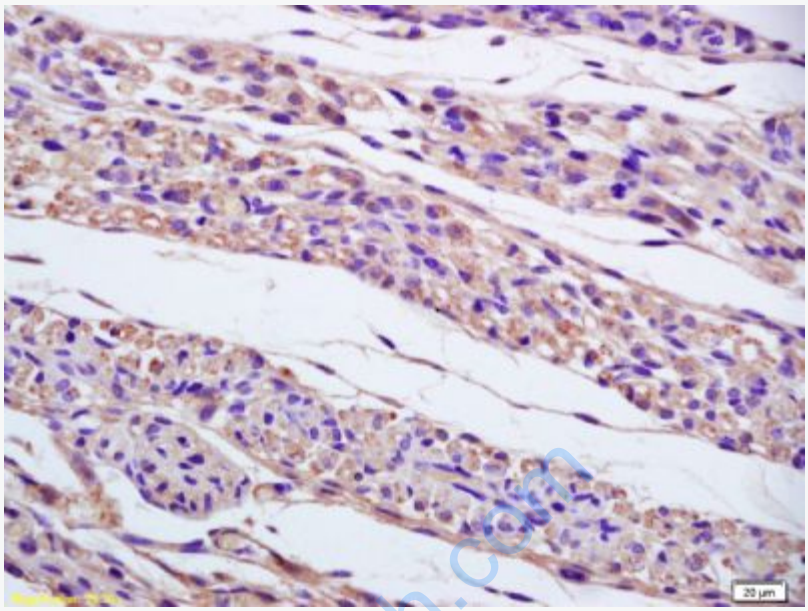
Unigene: 142348Mouse

Unigene: 479145Mouse

Unigene: 154431Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

结构蛋白(Structural Proteins)
gamma tubulin 微管蛋白是存于中心体的另一种微管蛋白,
gamma微管蛋白对微管的形成具有重要作用。gamma微管蛋白通过与β-微管蛋白的相互作用帮助微管的成核反应(nucleation)。即在微管的组装中gamma微管蛋白先形成一个圆或形成钩环结构,
γ微管蛋白的这种结构可指导微管蛋白二聚体结合上去并进行微管的组装。gamma微管蛋白在微管的组装中起关键作用。

Picture:	 Tissue/cell: mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-gamma tubulin Polyclonal Antibody, Unconjugated(SL1322R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining