

## Rabbit Tubulin gamma Polyclonal Antibody | anti-TUBG1 antibody

Tubulin gamma Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                              |
|-----------|--------|-------------------|-------------------------------------------|
| AAA320925 | Rabbit | Human, Mouse, Rat | ELISA, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

Tubulin gamma; Polyclonal Antibody; Tubulin gamma Antibody; Gamma 1 tubulin; Gamma 2 tubulin; Gamma Tubulin 1; Gamma Tubulin 2; Gamma tubulin complex component 1; Gamma-2-tubulin; GCP 1; GCP1; MGC131994; TBG2\_HUMAN; TUBG; TUBG1; TUBG2; TUBGCP1; Tubulin gamma 1 chain; Tubulin gamma 2 chain; Tubulin gamma complex-associated protein 1; Tubulin gamma-2 chain; tubulin; gamma 1; gamma 2; gamma polypeptide; Xgam; anti-TUBG1 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                               |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                        |
| Reactivity                                      | Human, Mouse, Rat                                                                             |
| Clonality                                       | Polyclonal                                                                                    |
| Isotype                                         | IgG                                                                                           |
| Specificity                                     | Tubulin gamma antibody detects endogenous levels of total Tubulin gamma                       |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                   | 1mg/ml (varies by lot)                                                                        |
| Sequence Length                                 | 451                                                                                           |
| Applicable Applications for anti-TUBG1 antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                          |
| Immunogen                                       | A synthesized peptide derived from human Tubulin gamma                                        |
| Subcellular Location                            | Cytoplasm > Cytoskeleton > Centrosome.                                                        |
| Conjugation                                     | Unconjugated                                                                                  |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                             |

### IMAGES



#### WB (Western Blot)

Western blot analysis on mouse brain cell lysate using Tubulin gamma Antibody. The lane on the left is treated with the antigen-specific peptide.



#### IHC (Immunohistochemistry)

AAA320925 at 1/100 staining human testis tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-TUBG1 antibody | <p>Function: 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.</p> <p>Subunit Structure: Interacts with TUBGCP2 and TUBGCP3 (PubMed:9566969, PubMed:9566969). Interacts with B9D2 (By similarity). Interacts with CDK5RAP2; the interaction is leading to centrosomal localization of TUBG1 and CDK5RAP2 (PubMed:17959831). Interacts with PIFO (PubMed:20643351). Interacts with SAS6 and NUP62 at the centrosome (PubMed:24107630).</p> <p>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.</p> <p>Similarity: Belongs to the tubulin family.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                       |
|----------------------------------|---------------------------------------|
| NCBI GI #                        | 31543831                              |
| NCBI GeneID                      | 7283                                  |
| NCBI Accession #                 | NP_001061.2                           |
| NCBI GenBank Nucleotide #        | NM_001070.4                           |
| UniProt Accession #              | P23258; Q53X79; Q9BW59                |
| Molecular Weight                 | Observed: 51 kDa<br>Predicted: 52 kDa |
| NCBI Official Full Name          | tubulin gamma-1 chain                 |
| NCBI Official Synonym Full Names | tubulin gamma 1                       |
| NCBI Official Symbol             | TUBG1                                 |
| NCBI Official Synonym Symbols    | TUBG; GCP-1; CDCBM4; TUBGCP1          |
| NCBI Protein Information         | tubulin gamma-1 chain                 |
| UniProt Protein Name             | Tubulin gamma-1 chain                 |
| UniProt Gene Name                | TUBG1                                 |
| UniProt Synonym Gene Names       | TUBG; GCP-1                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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