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KD-Validated Anti-gamma Tubulin Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1490

Specification

KD-Validated Anti-gamma Tubulin Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	P23258
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 51 kD a , observed, 48 kDa KDa**
Gene Name	**TUBG1**
Aliases	**TUBG1; Tubulin Gamma 1; TUBGCP1; TUBG; Gamma-Tubulin Complex Component 1; Tubulin, Gamma Polypeptide; Tubulin Gamma-1 Chain; GCP-1; Tubulin, Gamma 1; Gamma-1-Tubulin; CDCBM4**
Immunogen	**A synthesized peptide derived from human Tubulin gamma**

KD-Validated Anti-gamma Tubulin Rabbit Monoclonal Antibody - Additional Information

Gene ID **7283**

Other Names
Tubulin gamma-1 chain, Gamma-1-tubulin, Gamma-tubulin complex component 1, GCP-1, TUBG1 (HGNC:12417), TUBG

KD-Validated Anti-gamma Tubulin Rabbit Monoclonal Antibody - 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:<a

href="http://www.uniprot.org/citations/38609661" target="_blank">38609661, PubMed:39321809).

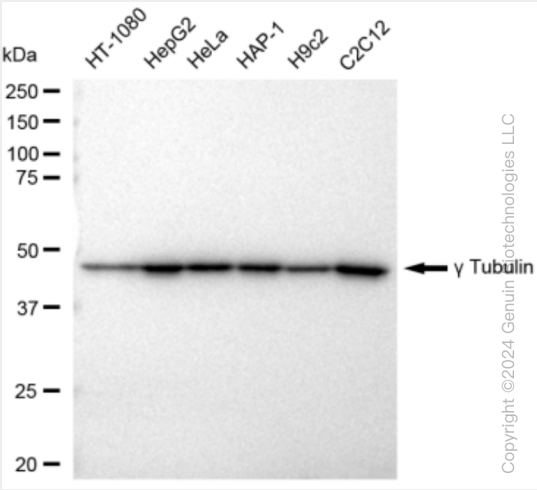
Cellular Location
Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle. Note=Localizes to mitotic spindle microtubules.

KD-Validated Anti-gamma Tubulin Rabbit Monoclonal Antibody - Protocols

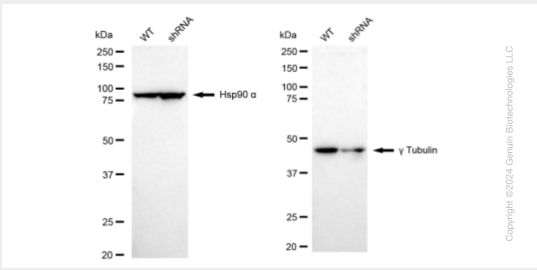
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-gamma Tubulin Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-gamma Tubulin antibody (Cat#AGI1490). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-gamma Tubulin antibody (Cat#AGI1490, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-gamma Tubulin antibody (Cat#AGI1490). gamma Tubulin expression in wild type (WT) and gamma Tubulin shRNA knockdown (KD) HeLa cells with 30 µg of

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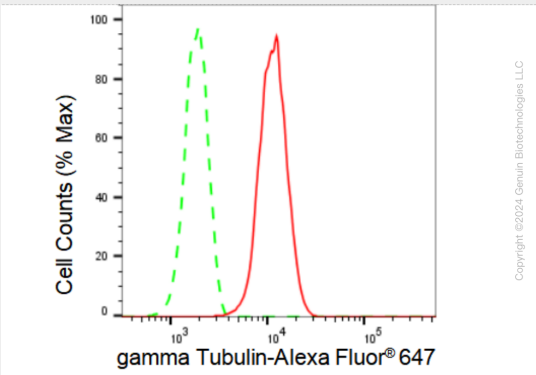
total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-gamma Tubulin antibody (Cat#AGI1490, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of gamma Tubulin expression in HepG2 cells using gamma Tubulin antibody (Cat#AGI1490, 1:2,000). Green, isotype control; red, gamma Tubulin.