

Anti-gamma tubulin Antibody [10-A4]

M1701-13



Product Type:	Mouse monoclonal IgG2a, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P, IF-Cell
Molecular Wt:	Predicted band size: 51 kDa
Clone number:	10-A4

Description: Tubulin is a major cytoskeleton component that has five distinct forms, designated α , β , γ , δ and ϵ Tubulin. α and β Tubulins form heterodimers which multimerize to form a microtubule filament. Multiple β Tubulin isoforms ($\beta 1$, $\beta 2$, $\beta 3$, $\beta 4$, $\beta 5$, $\beta 6$ and $\beta 8$) have been characterized and are expressed in mammalian tissues. $\beta 1$ and $\beta 4$ are present throughout the cytosol, $\beta 2$ is present in the nuclei and nucleoplasm, and $\beta 3$ is a neuron-specific cytoskeletal protein. γ Tubulin forms the gammasome, which is required for nucleating microtubule filaments at the centrosome. Both δ Tubulin and ϵ Tubulin are associated with the centrosome. δ Tubulin is a homolog of the *Chlamydomonas* δ Tubulin Uni3 and is found in association with the centrioles, whereas ϵ Tubulin localizes to the pericentriolar material. ϵ Tubulin exhibits a cell-cycle-specific pattern of localization, first associating with only the older of the centrosomes in a newly duplicated pair and later associating with both centrosomes.

Immunogen: Synthetic peptide within Human gamma tubulin aa 402-451 / 451.

Positive control: Rat epididymis tissue, human tonsil tissue, human colon cancer tissue, mouse testis tissue.

Subcellular location: Cytoplasm, cytoskeleton, centrosome.

Database links: SwissProt: P23258 Human | P83887 Mouse | P83888 Rat

Recommended Dilutions:

WB	1:1,000-1:5,000
IF-Cell	1:100-1:500
IHC-P	1:50-1:200

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein G affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

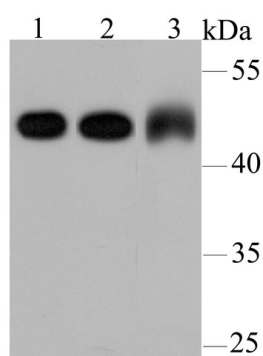


Fig1: Western blot analysis of gamma tubulin on different lysates using anti-gamma tubulin antibody at 1/2,000 dilution.

Positive control:

Lane 1: Jurkat

Lane 2: Hela

Lane 3: Human fetal brain tissue

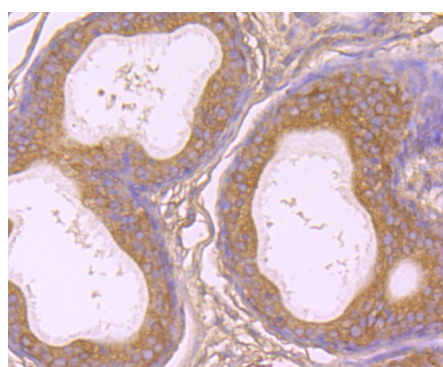


Fig2: Immunohistochemical analysis of paraffin-embedded rat epididymis tissue using anti-gamma tubulin antibody. Counter stained with hematoxylin.

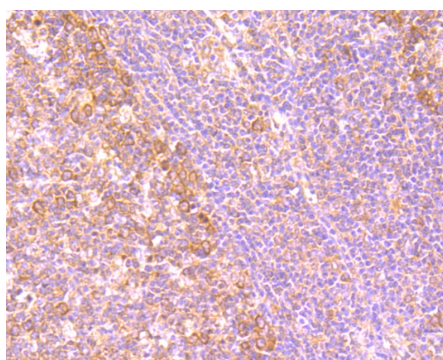


Fig3: Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-gamma tubulin antibody. Counter stained with hematoxylin.

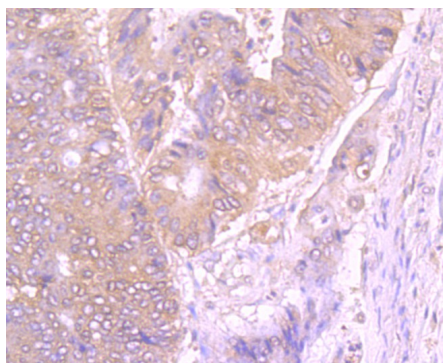


Fig4: Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-gamma tubulin antibody. Counter stained with hematoxylin.

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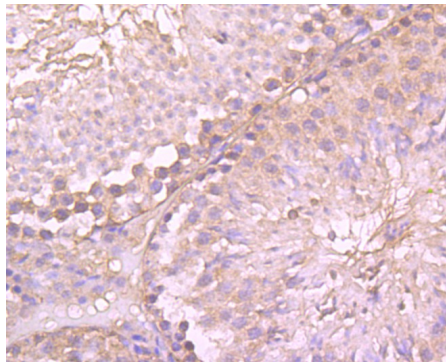


Fig5: Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-gamma tubulin antibody. Counter stained with hematoxylin.

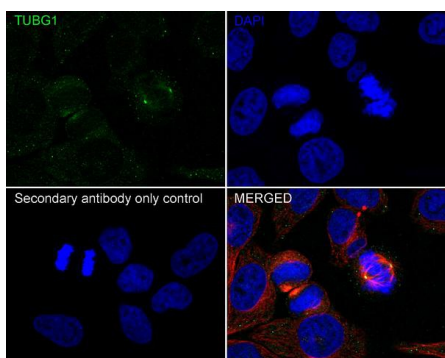


Fig6: Immunocytochemistry analysis of HeLa cells labeling gamma tubulin with Mouse anti-gamma tubulin antibody (M1701-13) at 1/200 dilution.

Cells were fixed in 4% paraformaldehyde for 20 minutes at RT, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Mouse anti-gamma tubulin antibody (M1701-13) at 1/200 dilution in 2% negative goat serum overnight at 4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 488, HA1125) was used as the secondary antibody at 1/1,000 dilution. Nuclear DNA was labelled in blue with DAPI.

beta Tubulin (ET1602-4, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Rabbit IgG H&L (iFluor™ 594, HA1122) were used as the secondary antibody at 1/1,000 dilution.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Morris EJ et al. Stat3 regulates centrosome clustering in cancer cells via Stathmin/PLK1. Nat Commun 8:15289 (2017).
2. Goldspink DA et al. Ninein is essential for apico-basal microtubule formation and CLIP-170 facilitates its

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