

## Anti-Gamma Tubulin Antibody (6F275)

### Product Details

|                   |                                      |
|-------------------|--------------------------------------|
| Ig Type:          | IgG                                  |
| Reactivity:       | Human,Mouse,Rat                      |
| Molecular Weight: | Theoretical: 50 kDa. Actual: 46 kDa. |
| Clone:            | 6F275                                |
| Purification:     | Protein G purified                   |

### Applications

1. Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Gamma Tubulin) Polyclonal Antibody, Unconjugated (TMAB-06324) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

2. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Gamma Tubulin) Polyclonal Antibody, Unconjugated (TMAB-06324) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

3. Blank control (black line): Hela.

Verified Activity: Primary Antibody (green line): Mouse Anti-Gamma Tubulin antibody (TMAB-06324)

Dilution: 1 µg/Test;

Secondary Antibody (white blue line): Goat anti-Mouse IgG-AF488

Dilution: 0.5 µg/Test.

Isotype control (orange line): Normal Mouse IgG

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

4. 25 µg total protein per lane of various lysates (see on figure) probed with Gamma Tubulin monoclonal antibody, unconjugated (TMAB-06324) at 1: 2000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r. T. for 60 min.

Application: WB,IHC-P,IHC-Fr,IF,FCM

## A DRUG SCREENING EXPERT

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Recommended WB: 1:500-5000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1µg/Test

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### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human Gamma Tubulin

Antigen Species: Human

Gene ID: 27175

Uniprot ID: P23258

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### Research Background

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 MTOC, is responsible for binding microtubule minus ends and mediating the link between microtubules 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.

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