

## Anti-TUBB1 Antibody (6Y546)

### Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6Y546
Purification:	Affinity-chromatography

### Applications

#### 1. Western Blot

- Positive WB detected in: K562 whole cell lysate
- All lanes: TUBB1 antibody at 1:1000
- Secondary: Goat polyclonal to mouse IgG at 1/50000 dilution
- Predicted band size: 50 kDa
- Observed band size: 50 kDa

2. IHC image of TMAH-01226 diluted at 1:300 and staining in paraffin-embedded human pancreatic cancer performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-Mouse IgG labeled by HRP and visualized using 0.05% DAB.

Verified Activity: 3. IHC image of TMAH-01226 diluted at 1:300 and staining in paraffin-embedded human pancreatic tissue performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-Mouse IgG labeled by HRP and visualized using 0.05% DAB.

4. Overlay Peak curve showing NIH/3T3 cells stained with TMAH-01226 (red line) at 1:200. The cells were fixed in 4% formaldehyde (15min) and permeated by 0.2% TritonX-100 for 10min. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1 $\mu$ g/1\*10<sup>6</sup> cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/200 dilution for 35 min at 4°C. Isotype control antibody (green line) was mouse IgG1 (1 $\mu$ g/1\*10<sup>6</sup> cells) used under the same conditions. Acquisition of >10,000 events was performed.

Application: ELISA, WB, IHC, FCM

Recommended WB:1:1000-1:5000; IHC:1:20-1:200; FCM:1:20-1:200.

### Properties

Stability & Storage: 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: Recombinant Protein: Human TUBB1 Protein

Antigen Species: Human

Gene ID: 81027

Uniprot ID: Q9H4B7

Synonyms: tubulin beta1;TUBB 1;Beta tubulin 1;Class VI beta tubulin;TBB1\_HUMAN;Tubulin beta-1 chain; class VI;2810484G07Rik;beta 1 tubulin;dJ543J19.4;M(beta)1;Beta-tubulin;Tubulin beta 1; Tubulin beta 1 class VI

Biology Area: Signal transduction

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### Research Background

Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha chain.

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