

**Antibody to Beta Tubulin Type III (5G8)**
MOUSE MONOCLONAL

Catalog Number: AB-V39
Quantity: 100 micrograms
Format: PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative.
Host: Mouse
Isotype: IgG2a
Clone: 5G8
Immunogen: Amino acids 436-450 of beta tubulin type III

Background: β -tubulin is a core component of microtubules and a member of the tubulin protein family. Multiple β -tubulin isotypes are encoded in the human genome, each with distinct patterns of expression and regulation. While certain isotypes are enriched in specific cell types such as neurons or testis, others are expressed more broadly or are induced under stress conditions such as hypoxia or nutrient deprivation. β -tubulin antibodies are widely used as immunological tools in cell and molecular biology for studying cytoskeletal organization, cell division, intracellular transport, and other microtubule-related processes.

Specificity & Preparation: This IgG2a mouse antibody is generated against amino acids 436-450 of beta tubulin type III and recognizes human, mouse, rat, and bovine homologs.

Usage: Applications include western blot, immunohistochemistry, immunoprecipitation, and immunofluorescence. Working dilutions must be determined by end user.

Storage: Store antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

**Selected References:**

1. Spano AJ, Frankfurter A (2010) Characterization of anti-beta-tubulin antibodies. *Methods Cell Biol* 95:33-46. doi: 10.1016/S0091-679X(10)95003-6 PMID: 20466128

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