

**Antibody to Beta Tubulin Type II (6B1-C1-H3)**  
MOUSE MONOCLONAL

**Catalog Number:** AB-V40  
**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:** IgG3  
**Clone:** 6B1-C1-H3  
**Immunogen:** C-terminus of beta II tubulin (CEEEEGEDEA)

**Background:**  $\beta$ -tubulin is a core component of microtubules and a member of the tubulin protein family. Multiple  $\beta$ -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.  $\beta$ -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 IgG3 mouse antibody is generated against the c-terminus of beta II tubulin (CEEEEGEDEA) and recognizes mammalian homologs.

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

**Storage:** Store antibody at  $-20^{\circ}\text{C}$  for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

**Selected References:**

1. Lobert S, Frankfurter A, Correia JJ (1998) Energetics of vinca alkaloid interactions with tubulin isotypes: implications for drug efficacy and toxicity. *Cell Motil Cytoskeleton* 39(2):107-121. doi: 10.1002/(SICI)1097-0169(1998)39:2<107::AID-CM2>3.0.CO;2-3 PMID: 9484953

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