

**Antibody to Beta Tubulin (AA2 (Tu27))**
MOUSE MONOCLONAL

Catalog Number: AB-V44
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: IgG1
Clone: AA2 (Tu27)
Immunogen: bovine brain tubulin (amino acids 416-431)

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 IgG1 mouse antibody is generated against bovine brain tubulin and recognizes mammalian homologs of beta tubulin types I, II, III, IV (aa416-431).

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.



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Selected References:

1. Moody SA, Miller V, Spanos A, Frankfurter A (1996) Developmental expression of a neuron-specific beta-tubulin in frog (*Xenopus laevis*): a marker for growing axons during the embryonic period. *J Comp Neurol* 364(2):219-230. doi: 10.1002/(SICI)1096-9861(19960108)364:2<219::AID-CNE3>3.0.CO;2-8 PMID: 8788246

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