

**Antibody to Detyrosinated Alpha Tubulin (AA10 (1A11))**
MOUSE MONOCLONAL

Catalog Number: AB-V42
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: AA10 (1A11)
Immunogen: Alpha tubulin (GEEEGE)

Background: Microtubules are essential cytoskeletal structures in eukaryotic cells, playing key roles in chromosome segregation during mitosis and meiosis, intracellular transport, cell shape maintenance, migration, and morphogenesis. They are composed of tubulin heterodimers, each consisting of one α -tubulin and one β -tubulin subunit, which are highly conserved across eukaryotic species. Tubulin is a major target for therapeutic drugs, and inhibitors of tubulin polymerization or depolymerization have been extensively developed as antimitotic agents in cancer chemotherapy.

Specificity & Preparation: This IgG2a mouse antibody is generated against alpha tubulin (GEEEGE) and recognizes mammalian 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.



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Selected References:

1. Estève MA, Carré M, Bourgarel-Rey V, Kruczynski A, Raspaglio G, Ferlini C, Braguer D (2006) Bcl-2 down-regulation and tubulin subtype composition are involved in resistance of ovarian cancer cells to vinflunine. Mol Cancer Ther 5(11):2824-2833. doi: 10.1158/1535-7163.MCT-06-0277 PMID: 17121929

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