

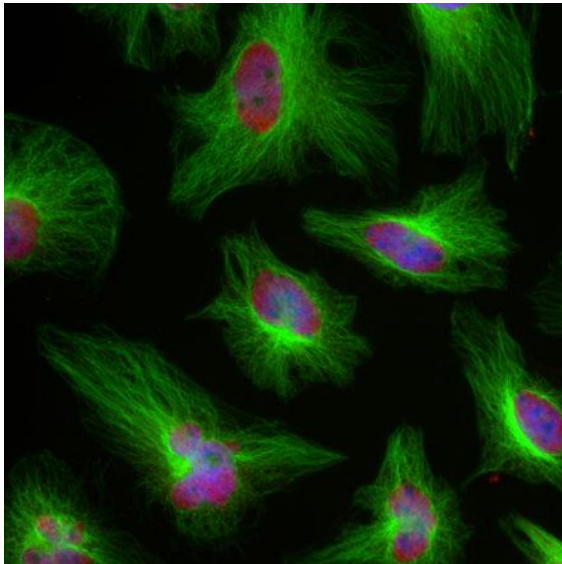


Catalog Number:	MO22202	Host:	Mouse
Product Type:	Mouse Monoclonal IgG2b	Species Reactivity:	Human, Rat, Mouse, Monkey
Immunogen Sequence:	Pig brain tubulin preparation	Format:	Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN ₃
Applications:	Immunofluorescence: 1:5,000 Immunohistochemistry: 1:5,000 Western Blot: 1:5,000-10,000		
Storage:	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.		

Application Notes

Description/Data

Tubulins are a major class of cytoskeletal proteins and divided into five distinct classes, namely α , β , γ , δ and ϵ . The most abundant members of this family are the α and β -tubulins which are the major components of cytoplasmic microtubules. The various subunits have molecular weights of approximately 50kDa and are 50% identical to one another at the protein



sequence level. Microtubules are involved in a number of essential cellular functions including the maintenance of cell shape, vesicle and organelle transport, cell motility, cell signaling, meiosis and mitosis. The important role of microtubules in forming the mitotic spindle during cell division makes them a desirable target for the development of therapeutic agents directed against rapidly dividing cancer cells.

This antibody was raised against tubulin purified from pig brain. Antibodies to β -tubulin are widely used as loading controls in western blotting experiments as a standard by which the levels of other proteins may be measured.

Image: Immunofluorescent analysis of HeLa cells stained with mouse mAb to β -tubulin, MO22202, dilution 1:5,000 in green, and costained with chicken pAb to the nucleic acid binding protein FOX2, dilution 1:1,000 in red. Blue is DAPI staining of nuclear DNA.

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