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Anti-α-Tubulin (C-terminus) Antibody

Catalog # AN1998

Product Information

Application	WB, IHC, ICC, IP
Primary Accession	P02552
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Clone Names	DM1A
Calculated MW	50136

Additional Information

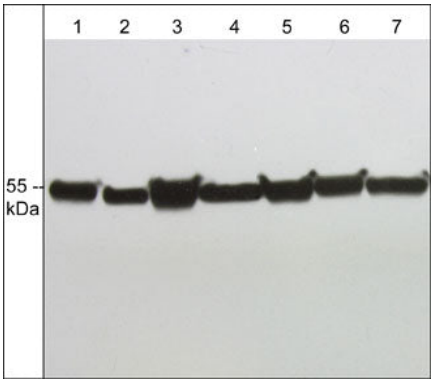
Gene ID	429035
Other Names	alpha Tubulin, Tubulin A1C
Dilution	WB~~1:1000 IHC~~1:100~500 ICC~~N/A IP~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-α-Tubulin (C-terminus) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

Background

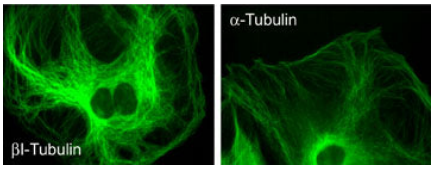
Microtubules (MTs) are cytoskeletal elements that play an essential role in cell division and cytoplasmic organization. MTs are dynamic polymers of a/β-Tubulin heterodimers. At least two populations of MTs, called dynamic and stable according to their rates of turnover, are readily distinguishable in cells. The proteins associated with MTs (MAPs) are among the best-known factors that regulate MT dynamics and stability. In addition, a variety of different post-translational modifications may also regulate MT dynamics and stability. Phosphorylation is one of these modifications and it can occur on serine, threonine, and tyrosine residues in α- and β-Tubulin isoforms. Multiple kinases can phosphorylate Ser-444 at the C-terminus of βIII-Tubulin in vitro, and unphosphorylated Ser-444 may be an early marker for cells of neuronal lineage. Cdk1 can phosphorylate Ser-172 in β-Tubulin during mitosis and this may impair tubulin incorporation into microtubules. In α-tubulin, PKC can phosphorylate Ser-165 leading to increased cell motility in human breast cells.

Images

Western blot analysis of α-tubulin expression in human A431 (lane 1), HUVEC (lane 2), Jurkat (lane 3), mouse J774.1 (lane 4), human PC-3 (lane 5), rat PC12 (lane 6),



and mouse C2C12 (lane 7). The blot was probed with anti-α-Tubulin (C-terminus) at 1:1000.



Immunocytochemical labeling of α- and βI-Tubulin in rat A7r5 cells. The cells were labeled with anti-βI-Tubulin (TM1541) (left) and anti-α-tubulin (AN1998) (right). The antibodies were detected using Goat anti-Mouse conjugated to DyLight® 488.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.