Loading control
alpha Tubulin

Innovative Therapeutic Antibody

AbClon

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Anti-alpha Tubulin antibody

Cat. No.	**AbC-2001**
Size	200ul
Host Species	Rabbit
Cross reactivity	Human, Mouse, Rat
Tested application	ELISA, Western blot (Other application is not tested)
Immunogen	Synthetic peptide. VGVDSVEGEGEEEGEE (435-450a.a) of human alpha tubulin.
Form	Liquid
Storage	Store at -20℃.
Purification	Immunoaffinity chromatography purified.
Concentration	1mg/ml
Storage buffer	0.02% sodium azide, 50% glycerol in PBS
Clonity	Polyclonal
Isotype	IgG
Positive control	A431 cell

Background

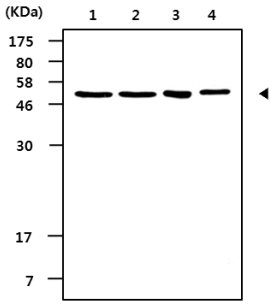
Microtubules are polymers of tubulin, a dimer of two 55kDa subunits, designated alpha and beta. Within the microtubule lattice, alpha-beta heterodimers associate in a head-to-tail fashion, giving rise to microtubule polarity. Fluorescent labelling studies have suggested that tubulin is oriented in microtubules with beta-tubulin toward the plus end. For maximal rate and extent of polymerisation into microtubules, tubulin requires GTP. Two molecules of GTP are bound at different sites, termed N and E. At the E (Exchangeable) site, GTP is hydrolysed during incorporation into the microtubule. Close to the E site is an invariant region rich in glycine residues, which is found in both chains and is thought to control access of the nucleotide to its binding site.

Recommended Dilution

ELISA	1/5000 – 1/10000
Western blot	1/2000 – 1/5000

Optimal working dilutions must be determined by end user.

Image



Western blot analysis of cell lysate :
Lane 1: A431 cell lysate
Lane 2: BT-474 cell lysate
Lane 3: NIH3T3 cell lysate
Lane 4 : PC-12 cell lysate

Reference

1) Cleveland DW, Sullivan KF. *Annu. Rev. Biochem.* 54:331-65, 1985

2) Joshi HC, Cleveland DW. *Cell Motil. Cytoskeleton.* 16:159-63, 1990.

3) Mitchison TJ. *Science.* 261:1044-7, 1993.

Note : For research use only. Not for use in diagnostic procedures.

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