

beta Tubulin
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5683

Specification

beta Tubulin - Product Information

Application	WB, FC,E
Primary Accession	P99024
Other Accession	O17299 , P12456 , P09203 , O24560 , O9YHC3 , O27U48 , O17449 , P36221 , O6EVK8 , O13885 , O4R5B3 , O7TMM9 , P85108 , O6B856 , O9BVA1 , O9CWF2 , O3KRE8 , P52275 , P32882 , P83130 , P61858 , P61857 , P13602 , O2T9S0 , P09206 , O13509 , O60HC2 , O9ERD7 , O4ORB4 , O3ZBU7 , P04350 , O4R4X8
Reactivity Predicted	Human, Mouse, Rat C.Elegans, Chicken, Drosophila, Monkey, Bovine, Xenopus, Hamster, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	M=50 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

beta Tubulin - Additional Information

Gene ID 22154

Antigen Region
46-78

Other Names
Tubulin beta-5 chain, Tubb5

Dilution
WB~~1:4000
FC~~1:25

Target/Specificity
This antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 46-78 amino acids from human.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
beta Tubulin is for research use only and not for use in diagnostic or therapeutic procedures.

beta Tubulin - Protein Information

Name Tubb5

Function

Tubulin is the major constituent of microtubules, a cylinder consisting of laterally associated linear protofilaments composed of alpha- and beta-tubulin heterodimers. Microtubules grow by the addition of GTP-tubulin dimers to the microtubule end, where a stabilizing cap forms. Below the cap, tubulin dimers are in GDP-bound state, owing to GTPase activity of alpha-tubulin.

Cellular Location

Cytoplasm, cytoskeleton

Tissue Location

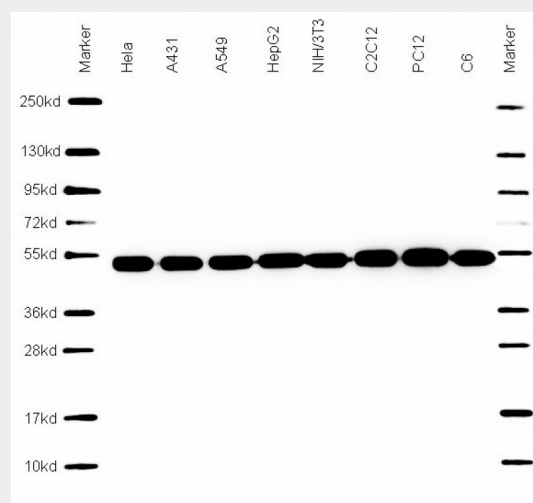
Ubiquitously expressed with highest levels in spleen, thymus and immature brain. Expressed in embryonic brain, including throughout the developing cortex and in the subventricular zone. Also found in radial glial cells, intermediate progenitors, migrating neurons and postmitotic neurons (PubMed:23246003). Expressed in skin and developing hair follicle (PubMed:26637975)

beta Tubulin - Protocols

Provided below are standard protocols that you may find useful for product applications.

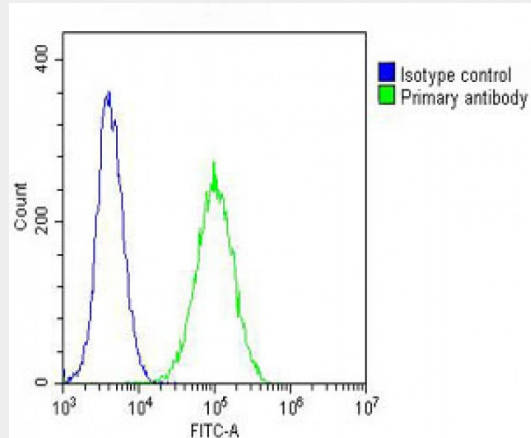
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

beta Tubulin - Images



All lanes : Anti-beta Tubulin Antibody at 1:4000 dilution Lane 1: HeLa whole cell lysate Lane 2: A431 whole cell lysate Lane 3: A549 whole cell lysate Lane 4: HepG2 whole cell lysate Lane 5: NIH/3T3 whole cell lysate Lane 6: C2C12 whole cell lysate Lane 7: PC-12 whole cell lysate Lane 8:

C6 whole cell lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 55 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Overlay histogram showing NIH/3T3 cells stained with AW5683 (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AW5683, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >10, 000 events was performed.

beta Tubulin - Background

Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha chain.

beta Tubulin - References

- Wang D.,et al.J. Cell Biol. 103:1903-1910(1986).
- Carninci P.,et al.Science 309:1559-1563(2005).
- Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).
- Lubec G.,et al.Submitted (JUL-2007) to UniProtKB.
- Lewis S.A.,et al.J. Cell Biol. 101:852-861(1985).

beta Tubulin - Citations

- [Adrenomedullin Inhibits Osmotic Water Permeability in Rat Inner Medullary Collecting Ducts](#)
- [Aldosterone Decreases Vasopressin-Stimulated Water Reabsorption in Rat Inner Medullary Collecting Ducts](#)