10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

beta Tubulin

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5683

Product Information

Application	WB
Primary Accession	P99024
Other Accession	Q17299, P12456, P09203, Q24560, Q9YHC3, Q27U48, O17449, P36221, Q6EVK8, Q13885, Q4R5B3, Q7TMM9, P85108, Q6B856, Q9BVA1, Q9CWF2, Q3KRE8, P52275, P32882, P83130, P61858, P61857, P13602, Q2T9S0, P09206, Q13509, Q60HC2, Q9ERD7, Q4QRB4, Q3ZBU7, P04350, Q4R4X8, Q9D6F9, Q3MHM5, P68371, P86221, P68
Reactivity	Human, Mouse, Rat
Predicted	Human, Mouse, Monkey, Dog, Sheep, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49671
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	22154
Antigen Region	46-78
Other Names	Tubulin beta-5 chain, Tubb5
Dilution	WB~~1:4000
Target/Specificity	This antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 46-78 amino acids from human.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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.

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)

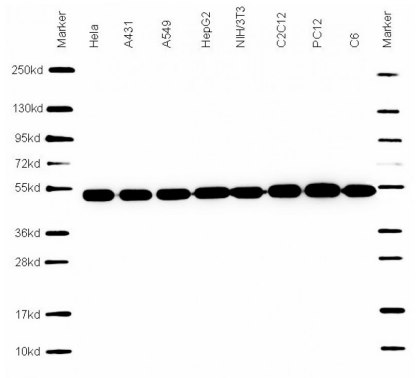
Background

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.

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).

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 lysate 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.

Citations

- Aldosterone Decreases Vasopressin-Stimulated Water Reabsorption in Rat Inner Medullary Collecting Ducts
- Adrenomedullin Inhibits Osmotic Water Permeability in Rat Inner Medullary Collecting Ducts

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