

Rabbit Anti-Tubulin-alpha antibody

SL0159R

Product Name:	Tubulin-alpha
Chinese Name:	微管蛋白α/Tubulin α抗体
Alias:	 Alpha tubulin 1; Alpha-tubulin 1; Detyrosinated alpha Tubulin; FLJ30169; H2 alpha; TBA4A_HUMAN; Testis specific alpha tubulin; Testis-specific alpha-tubulin; TUBA 4A; TUBA1; Tuba4a; Tubulin alpha 1 (testis specific); Tubulin alpha 1; Tubulin alpha 1 chain; Tubulin alpha 4a; Tubulin alpha 4A chain; Tubulin alpha-1 chain; Tubulin alpha 4A chain; Tubulin H2 alpha; Tubulin H2-alpha; TUBA4A; α-tubulin; α tubulin.
	Specific References(2) SL0159R has been referenced in 2 publications.
	[IF=1.81]FANG, Wan-Ping, et al. "Differentially Expression of Tua 1, a
	Tubulin-encoding Gene, during Flowering of Tea Plant Camellia sinensis (L.) O. Kuntze
文献引用	Using cDNA Amplified Fragment Length Polymorphism Technique." Acta biochimica
Pub	et biophysica Sinica 38.9 (2006): 653-662.WB;Plant.
:	PubMed:16953305
	[IF=2.19]Wang, Jin, et al. "Clinical and tumor significance of tropomyosin-1 expression
	levels in renal cell carcinoma." Oncology Reports 33.3 (2015): 1326-1334.other;
	PubMed:25607530
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Cow, Sheep,
	WB=1:2000-5000ELISA=1:500-1000Flow-Cyt=1µg/Test
Applications:	not yet tested in other applications.
	optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	50kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	lmg/ml

immunogen:	KLH conjugated synthetic peptide derived from human Tubulin-alpha 1:375-448/448
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Tubulin is a major cytoskeleton that has five distinct forms, designated alpha, beta, gamma, delta and epsilon tubulin. The alpha and beta tubulins form a heterodimer that polymerize into the cylindrical microtubule fibers. Both alpha and beta tubulin bind GTP. Only beta tubulin hydrolyzes GTP to GDP. This hydrolysis is a process that is linked to tubulin polymerization and microtubule formation. The alpha tubulin isomer can be modified by addition of a C-terminal tyrosine residue. This modification may influence polymerization rates. The gamma tubulin isomer is localized to centrosomes which compose the heart of the microtubule organizing center from which microtubule fibers emanate. Function: 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. Subunit: Dimer of alpha and beta chains. Subcellular Location: Cytoplasm, cytoskeleton. Post-translational modifications: Some glutamate residues at the C-terminus are polyglutamylated. This modification occurs exclusively on glutamate residues and results in polyglutamate chains on the gamma-carboxyl group. Also monoglycylated but not polyglycylated due to the absence of functional TTLL10 in human. Monoglycylation is mainly limited to tubulin incorporated into axonemes, and the mitotic spindle. Both modifications can coexist on the same protein on adjacent residues, and lowering glycylation levels increases polyglutamylation, and reciprocally. The precise function of such modifications is still unclear but they regulate the assembly and dynamics of axonemal microtubules (Probable). Acetylation of alpha chains at Lys-40 stabilizes microtubules and affects affinity and processivity of microtubule motors. This modification has a role in multiple cellular functions, ranging from cell motility, cell cycle progression or cell differentiation to intracellular trafficking and signaling.

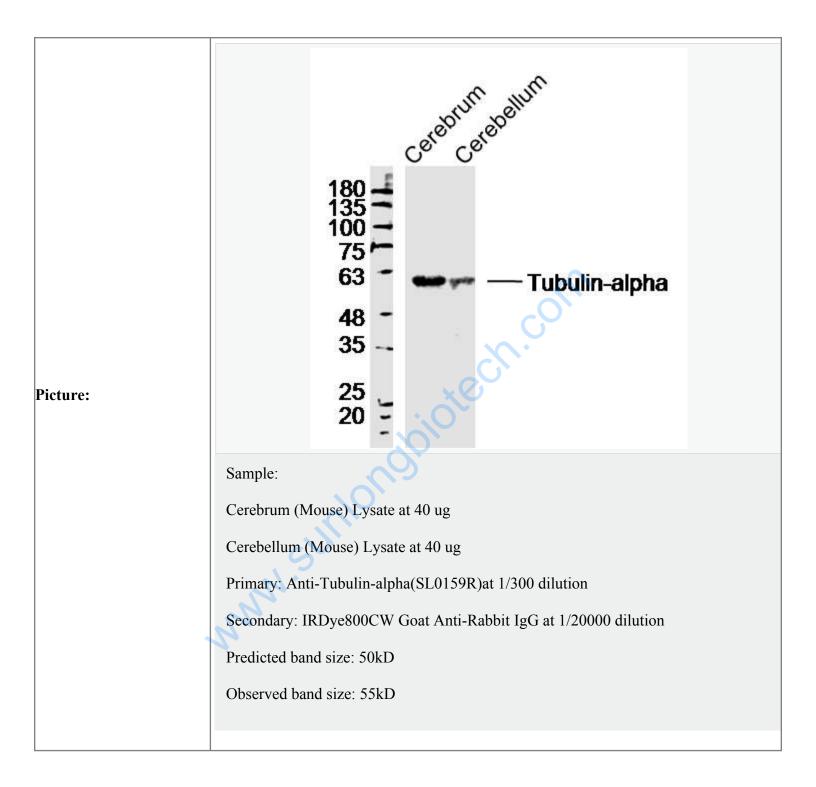
Similarity: Belongs to the tubulin family. SWISS: Q71U36 Gene ID: 7846 Database links: Entrez Gene: 7846Human jiotech.com Entrez Gene: 22142Mouse Entrez Gene: 64158Rat Omim: 602529Human SwissProt: Q71U36Human SwissProt: P68369Mouse SwissProt: P68370Rat Unigene: 654422Human Unigene: 405359Mouse Unigene: 234326Rat

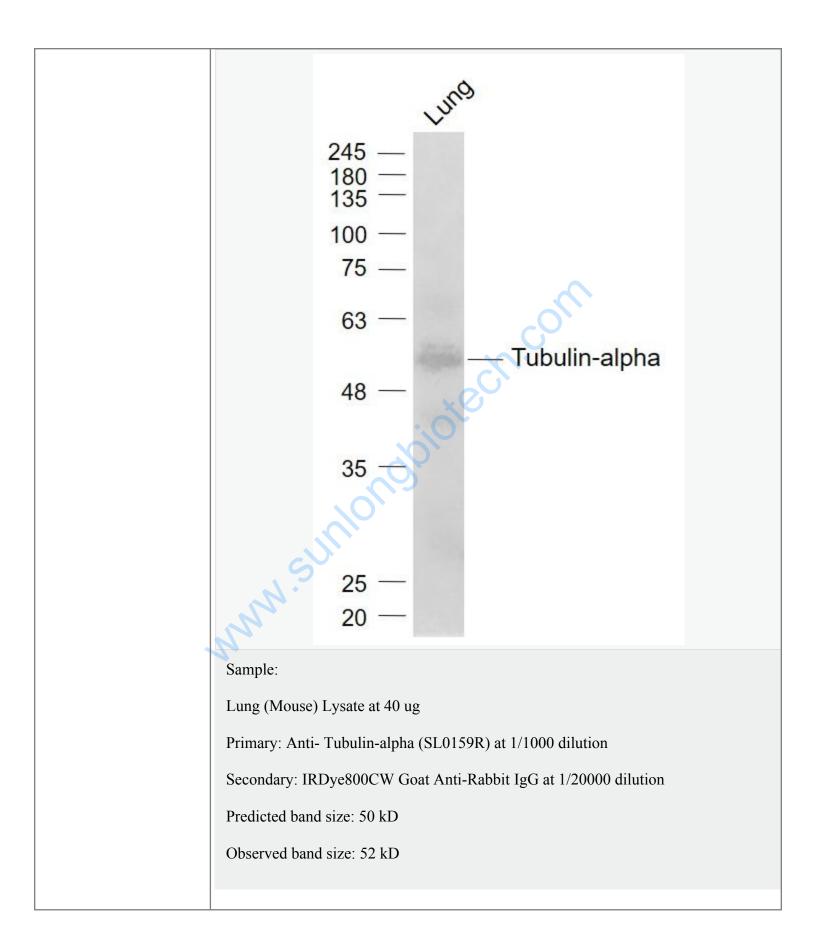
Important Note:

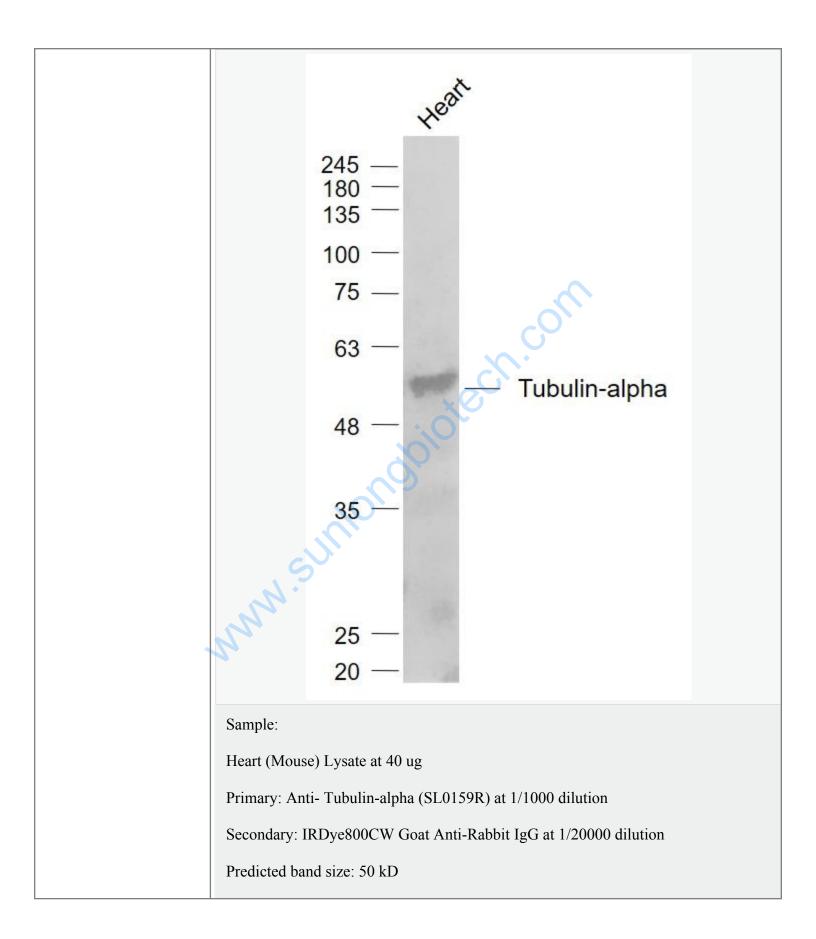
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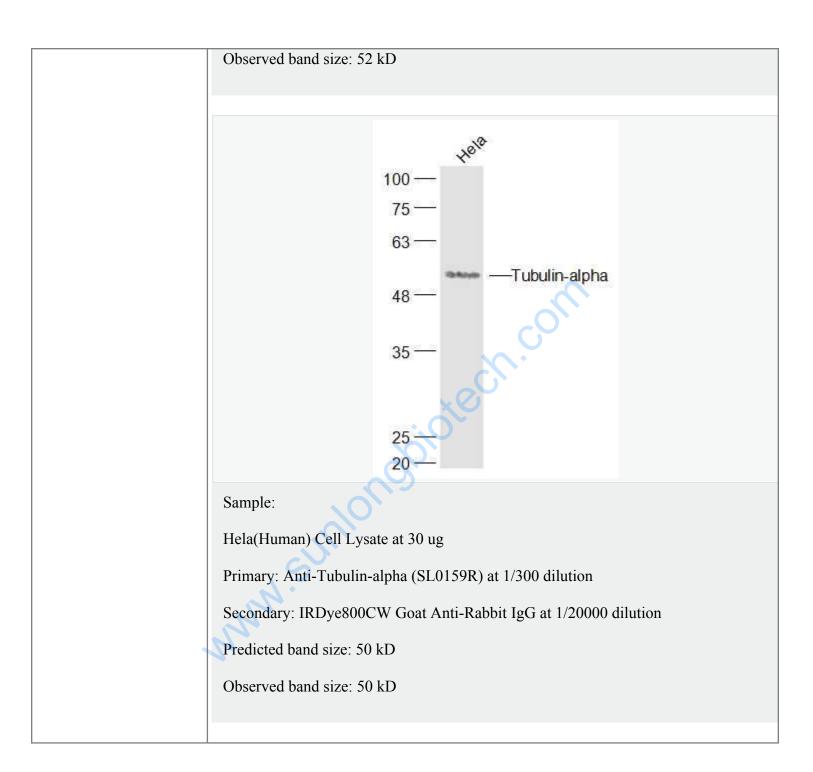
结构蛋白(Structural Proteins)

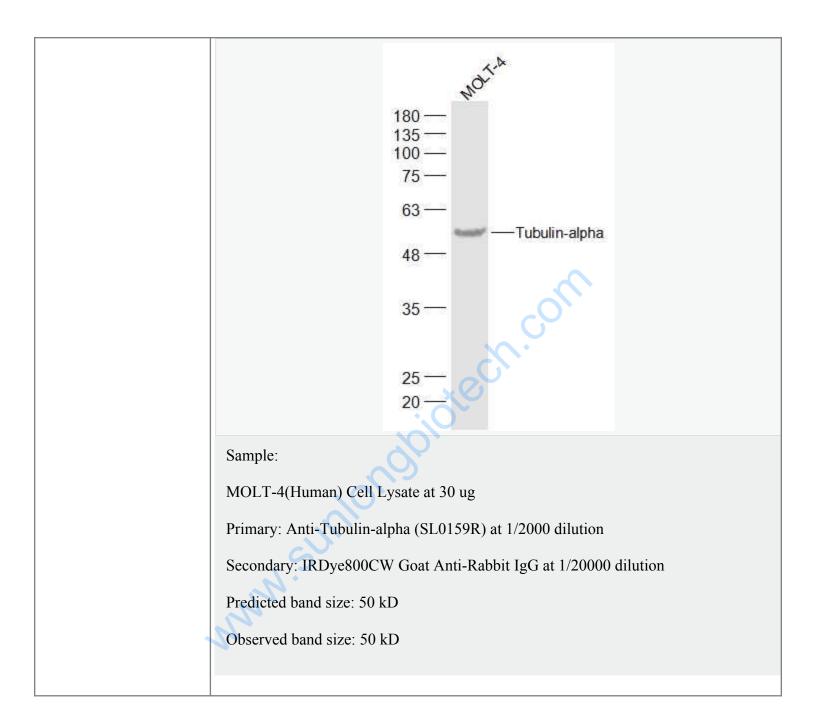
tubulin是一种大量存在于哺乳动物脑组织中的微管亚基蛋白,在结构上是由两个极 为相近的α和β亚基组成的二聚体、多聚体形成微管细丝,是微管的主要成分。 微管蛋白是球形分子,有两种类型:α微管蛋白(α-tubulin)和β微管蛋白(βtubulin)货号:bs-0210R,这两种微管蛋白具有相似的三维结构, 能够紧密地结合成二聚体,作为微管组装的亚基。 α亚基由450个氨基酸组成,β亚基是由455个氨基酸组成, 这两种亚基有35~40%的氨基酸序列同源, 表明编码它们的基因可能是由同一原始祖先演变而来.

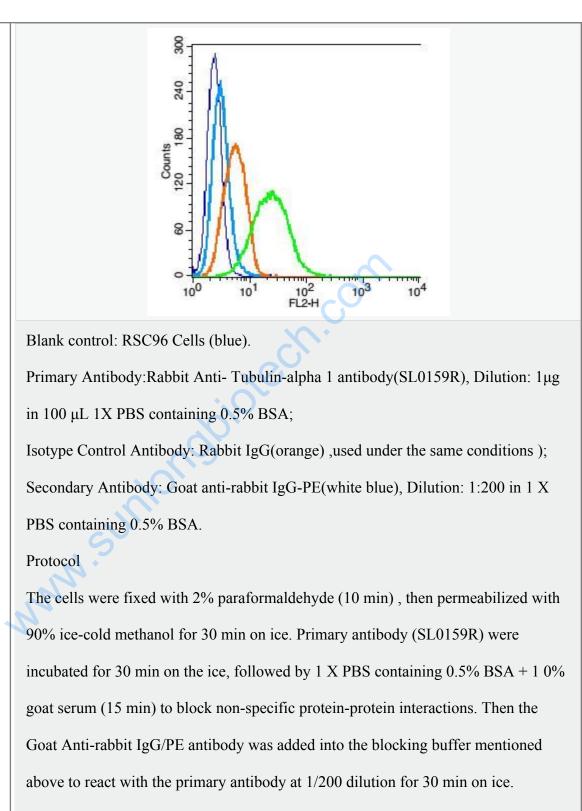












Acquisition of 20,000 events was performed.

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