



## Rabbit Anti-TUBB5 antibody

SL12863R

<b>Product Name:</b>	TUBB5
<b>Chinese Name:</b>	微管蛋白β5抗体
<b>Alias:</b>	beta 4 tubulin; Beta 5 tubulin; beta 1b tubulin; M40; tubulin beta 1 chain; Tubulin beta 4 chain; tubulin beta 5 chain; Tubulin beta; Tubulin beta chain; tubulin beta polypeptide; TBB5_HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Zebrafish,Sheep,Xenopus laevis
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	55kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human TUBB5:301-444/444
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	This gene encodes a beta tubulin protein. This protein forms a dimer with alpha tubulin and acts as a structural component of microtubules. Mutations in this gene cause cortical dysplasia, complex, with other brain malformations 6. Alternative splicing results in multiple splice variants. There are multiple pseudogenes for this gene on chromosomes

1, 6, 7, 8, 9, and 13. [provided by RefSeq, Jun 2014]

**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. May interact with RNABP10. Interacts with PIFO. Interacts with MX1.

**Subcellular Location:**

Cytoplasmic, cytoskeleton.

**Tissue Specificity:**

Ubiquitously expressed with highest levels in spleen, thymus and immature brain.

**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 TTL10 in human. Monoglycylation is mainly limited to tubulin incorporated into axonemes (cilia and flagella) whereas glutamylation is prevalent in neuronal cells, centrioles, axonemes, and the mitotic spindle. Both modifications can coexist on the same protein on adjacent residues, and lowering glycylation levels increases polyglutamylated, and reciprocally. The precise function of such modifications is still unclear but they regulate the assembly and dynamics of axonemal microtubules (Probable).

**Similarity:**

Belongs to the tubulin family.

**SWISS:**

P07437

**Gene ID:**

203068

**Database links:**

[Entrez Gene: 203068](#)Human

[Entrez Gene: 22154](#)Mouse

[Entrez Gene: 29214](#)Rat

[Oimim: 191130](#)Human

[SwissProt: P07437](#)Human

[SwissProt: P99024](#)Mouse

[SwissProt: P69897](#)Rat

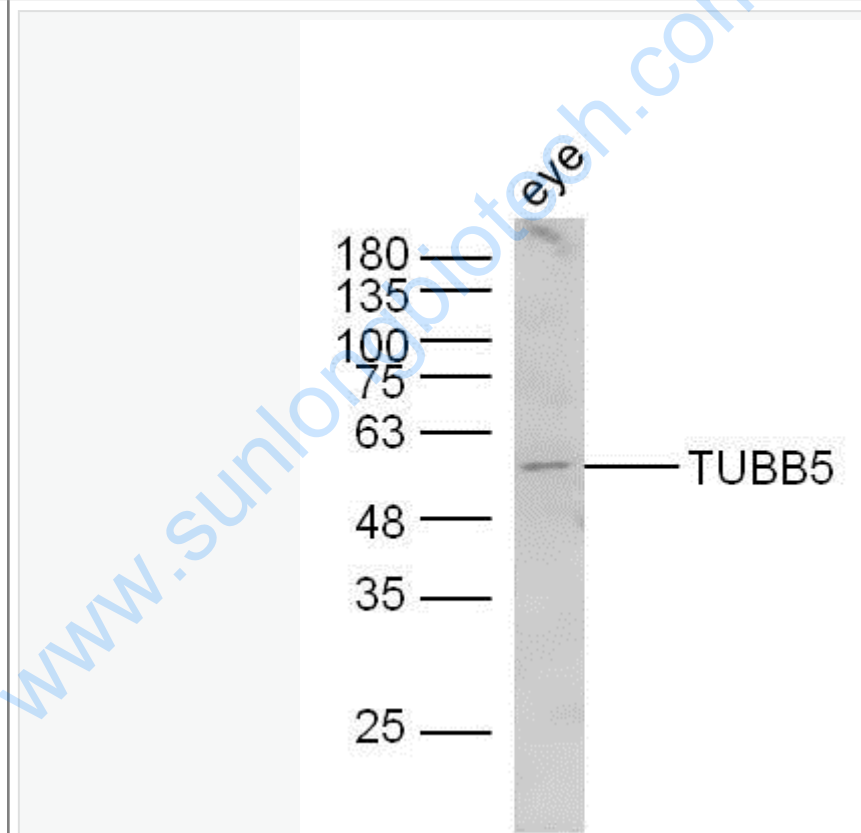
[Unigene: 636480](#)Human

[Unigene: 2458](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Picture:**



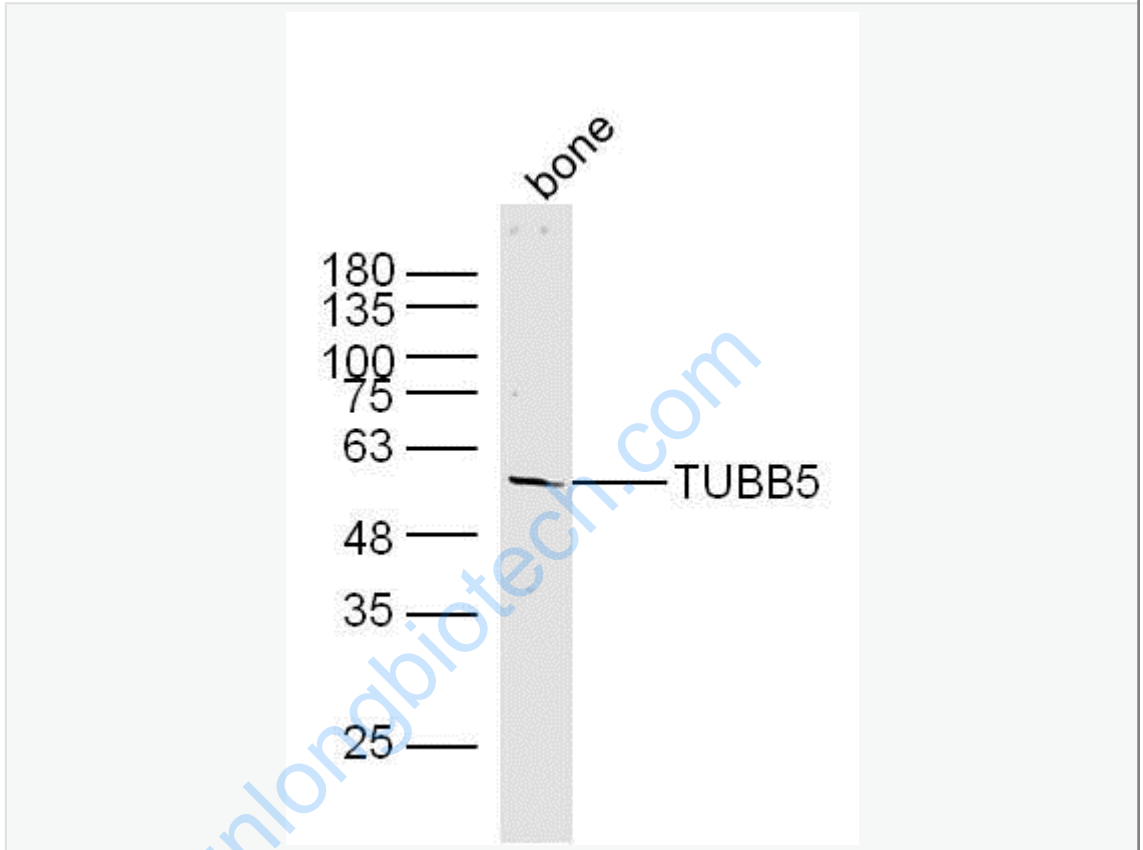
Sample: Eye (mouse) Lysate at 40 ug

Primary: Anti- TUBB5 (SL12863R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50 kD

Observed band size: 55 kD



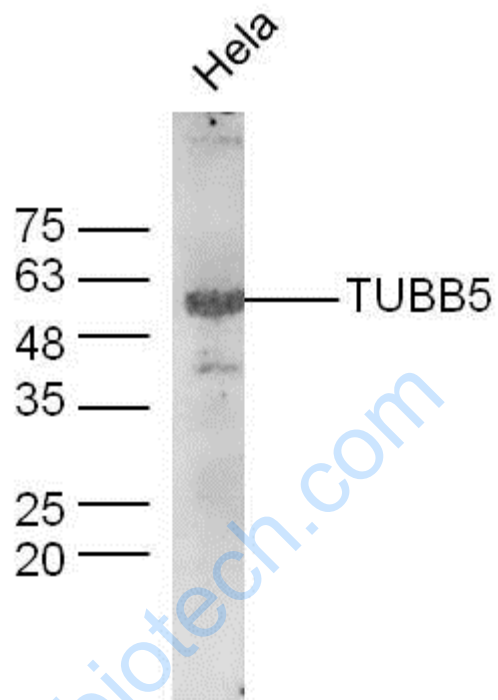
Sample: Bone (mouse) Lysate at 40 ug

Primary: Anti- TUBB5 (SL12863R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 55 kD

Observed band size: 55 kD



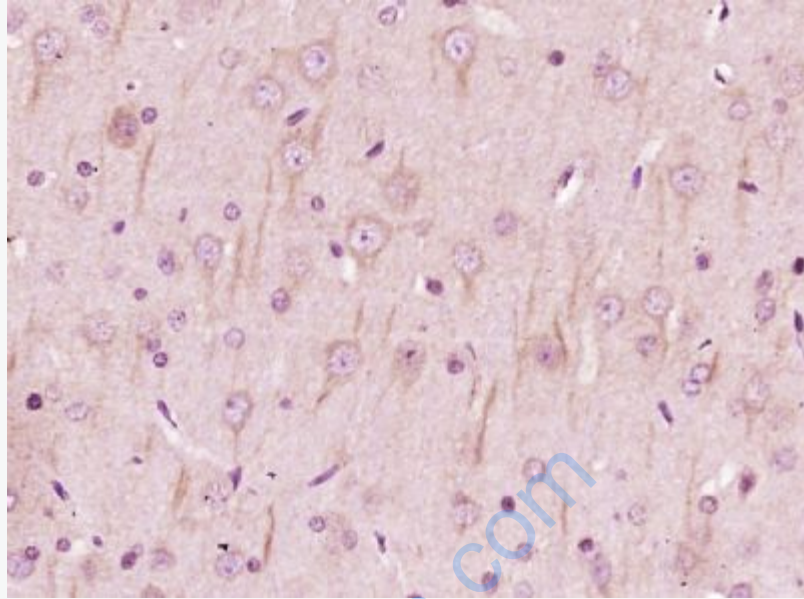
Sample: hela (human)cell Lysate at 40 ug

Primary: Anti- TUBB5(SL12863R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 55 kD

Observed band size: 55 kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TUBB5) Polyclonal Antibody, Unconjugated (SL12863R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.