

## Basic Information

<b>Product Name</b>	Anti-Beta Tubulin/TUBB Antibody	
<b>Gene Name</b>	TUBB	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Polyclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human, mouse, rat, monkey, chicken	
<b>Tested Application</b>	WB, IHC, ICC/IF, FCM	
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	A synthetic peptide corresponding to a sequence at the C-terminus of human Beta Tubulin, identical to the related mouse and rat sequences.	
<b>Purification</b>	Immunogen affinity purified.	
<b>Observed MW</b>	50 kDa	
<b>Dilution Ratios</b>	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400
	Flow Cytometry (Fixed):	1:50-200
	(Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

Tubulin beta chain is a protein that in humans is encoded by the TUBB gene. 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.

## Reference

Anti-Beta Tubulin/TUBB Antibody被引用在32文献中。

## Selected Validation Data

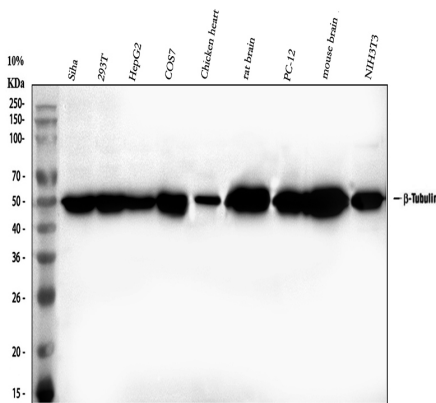


Figure 1. Western blot analysis of Beta Tubulin/TUBB using anti-Beta Tubulin/TUBB antibody (A01857-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human SiHa whole cell lysates,

Lane 2: human 293T whole cell lysates,

Lane 3: human HepG2 whole cell lysates,

Lane 4: monkey COS-7 whole cell lysates,

Lane 5: chicken heart tissue lysates,

Lane 6: rat brain tissue lysates,

Lane 7: rat PC-12 whole cell lysates,

Lane 8: mouse brain tissue lysates,

Lane 9: mouse NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-Beta Tubulin/TUBB antigen affinity purified polyclonal antibody (A01857-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Beta Tubulin/TUBB at approximately 50 kDa. The expected band size for Beta Tubulin/TUBB is at 50 kDa.

Then the membrane was incubated with rabbit anti-Beta Tubulin/TUBB antigen affinity purified polyclonal antibody (A01857-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Beta Tubulin/TUBB at approximately 50 kDa. The expected band size for Beta Tubulin/TUBB is at 50 kDa.

Then the membrane was incubated with rabbit anti-Beta Tubulin/TUBB antigen affinity purified polyclonal antibody (A01857-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Beta Tubulin/TUBB at approximately 50 kDa. The expected band size for Beta Tubulin/TUBB is at 50 kDa.

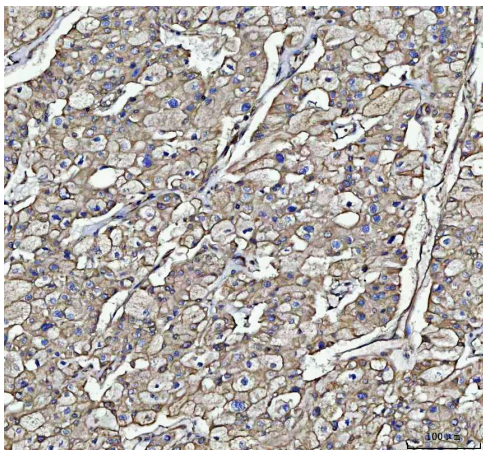


Figure 2. IHC analysis of Beta Tubulin/TUBB using anti-Beta Tubulin/TUBB antibody (A01857-1) .

Beta Tubulin/TUBB was detected in a paraffin-embedded section of human liver cancer tissue. The tissue section was incubated with rabbit anti-Beta Tubulin/TUBB Antibody (A01857-1) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1022) as the chromogen.

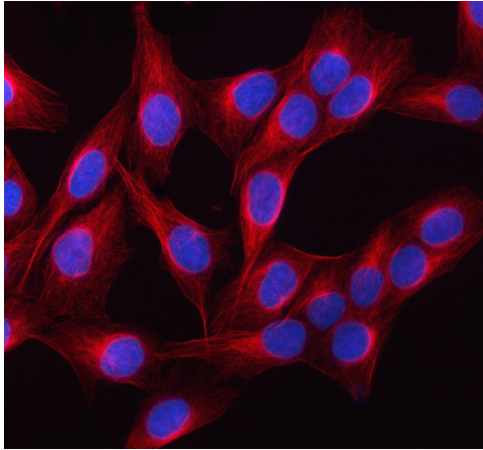


Figure 4. IF analysis of Beta Tubulin/TUBB using anti-Beta Tubulin/TUBB antibody (A01857-1).

Beta Tubulin/TUBB was detected in an immunocytochemical section of U2OS cells. The section was incubated with rabbit anti-Beta Tubulin/TUBB Antibody (A01857-1) at a dilution of 1:100. Cy3-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1032) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).

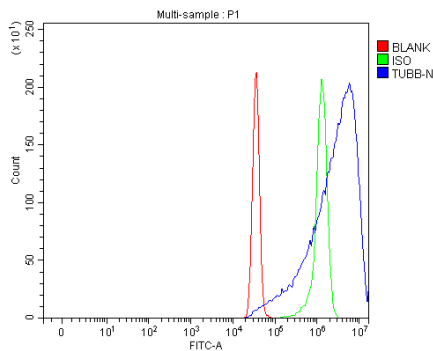


Figure 5. Flow Cytometry analysis of SiHa cells using anti-Beta Tubulin/TUBB antibody (A01857-1).

Overlay histogram showing SiHa cells stained with A01857-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Beta Tubulin/TUBB Antibody (A01857-1) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample (Red line) was also used as a control.