

Anti-beta Tubulin Mouse Monoclonal Antibody

Catalog # ABO15138

Product Information

Application	WB, IHC, IF, ICC
Primary Accession	P07437
Host	Mouse
Isotype	IgG1
Reactivity	Rat, Human, Mouse, Hamster, Chicken
Clonality	Monoclonal
Format	Liquid
Description	Anti-beta Tubulin Mouse Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat, Chicken, Hamster.

Additional Information

Gene ID	203068
Other Names	Tubulin beta chain, Tubulin beta-5 chain, TUBB, TUBB5
Calculated MW	49671
Application Details	WB 1:3000-1:10000 IHC 1:50-1:200 ICC/IF 1:50-1:200
Source	Eukaryota
Contents	Mouse IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 17T13
Immunogen	A synthesized peptide derived from human beta Tubulin
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	TUBB
Synonyms	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.

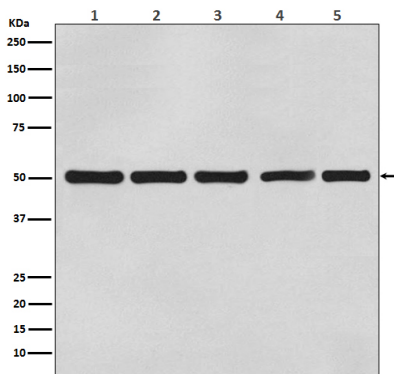
Cellular Location

Cytoplasm, cytoskeleton

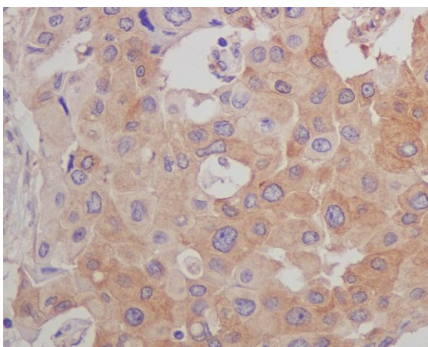
Tissue Location

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

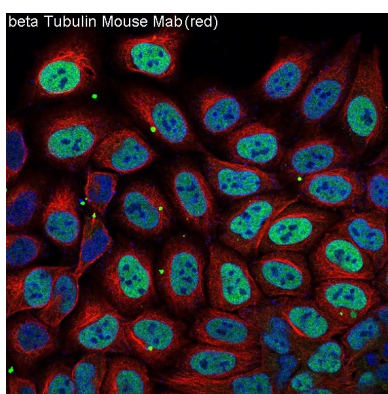
Images



Western blot analysis of beta Actin expression in (1) A431 cell lysate; (2) Rat brain lysate; (3) Mouse kidney lysate; (4) Chicken lung lysate; (5) Hamster spleen lysate with beta Tubulin Mouse Monoclonal Antibody.

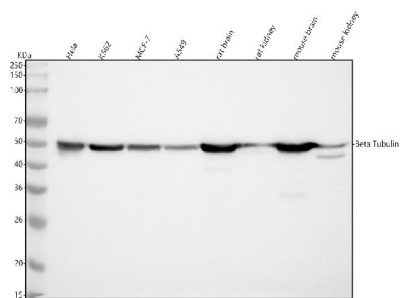


Immunohistochemical analysis of paraffin-embedded human breast carcinoma, using beta Tubulin Mouse Monoclonal Antibody.



Immunofluorescent analysis of HeLa cells, using beta Tubulin mAb.

Figure 1. Western blot analysis of beta Tubulin using anti-beta Tubulin antibody (M05613-5). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HeLa whole cell lysates,
Lane 2: human K562 whole cell lysates,



Lane 3: human MCF-7 whole cell lysates,

Lane 4: human A549 whole cell lysates,

Lane 5: rat brain tissue lysates,

Lane 6: rat kidney tissue lysates,

Lane 7: mouse brain tissue lysates,

Lane 8: mouse kidney tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-beta Tubulin antigen affinity purified monoclonal antibody (Catalog # M05613-5) at 1:3000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for beta Tubulin at approximately 50 kDa. The expected band size for beta Tubulin is at 50 kDa.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.