Anti-Beta Tubulin/TUBB Antibody (Clone#5E4)

Catalog Number: *M01857-3*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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Basic Information

Product Name	Anti-Beta Tubulin/TUBB Antibody (Clone#5E4)
Gene Name	TUBB
Source	Mouse
Clonality	Monoclonal
Isotype	IgG1
Species Reactivity	human, mouse, rat
Tested Application	WB, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Beta Tubulin, identical to the related mouse and rat sequences.
Purification	protein G purified.
Observed MW	55 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-400 Flow Cytometry (Fixed): 1:50-200

Storage

12 months from date of receipt，-20℃ as supplied.

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 (Clone#5E4)被引用在2文献中。

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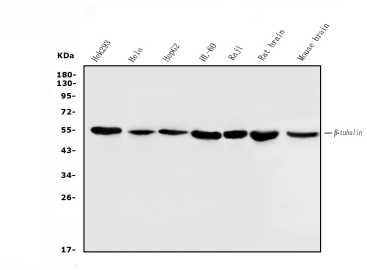
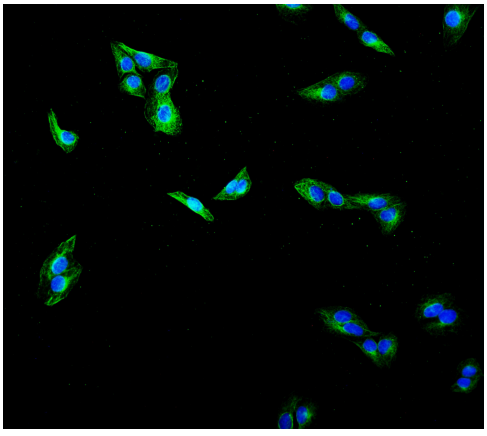
Selected Validation Data



Western blot analysis of Beta Tubulin/TUBB using anti-Beta Tubulin/TUBB antibody (M01857-3). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HEK293 whole cell lysates,
Lane 2: human HELA whole cell lysates,
Lane 3: human HepG2 whole cell lysates,
Lane 4: human HL-60 whole cell lysates,
Lane 5: human Raji whole cell lysates,
Lane 6: rat brain tissue lysates,
Lane 7: mouse brain tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-Beta Tubulin/TUBB antigen affinity purified monoclonal antibody (M01857-3) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Beta Tubulin/TUBB at approximately 55 kDa. The expected band size for Beta Tubulin/TUBB is at 50 kDa.



ICC/IF analysis of Beta Tubulin/TUBB using anti-Beta Tubulin/TUBB antibody (M01857-3).
Beta Tubulin/TUBB was detected in an immunocytochemical section of A431 cells. The section was incubated with mouse anti-Beta Tubulin/TUBB Antibody (M01857-3) at a dilution of 1:100. Fluoro488-conjugated Anti-mouse IgG Secondary Antibody (green)(Catalog#BA1126) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).

Product datasheet

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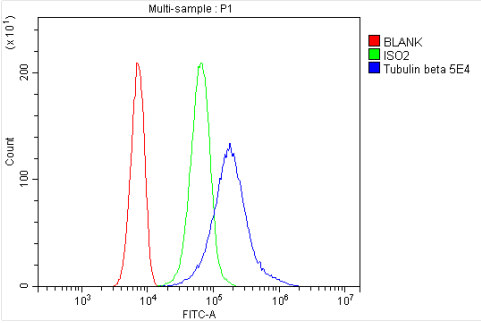

Flow Cytometry analysis of SiHa cells using anti-Beta Tubulin/TUBB antibody (M01857-3).
Overlay histogram showing SiHa cells stained with M01857-3 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-Beta Tubulin/TUBB Antibody (M01857-3) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.