

Anti-Gamma-Tubulin Antibody (Monoclonal, GTU-88)

Catalog Number: MA1114

About TUBG1

Gamma-tubulin is a universal component of microtubule organizing centers, which is essential for nuclear division and microtubule assembly in *Aspergillus nidulans*. TUBG1 mapped to within 20 kb of TUBG2 at 17q21. Gamma-tubulin is a minor protein, present at less than 1% the level of alpha- and beta-tubulin, and is limited to the centrosome. Gamma-tubulin is present in *Drosophila melanogaster* and *Homo sapiens*.

Overview

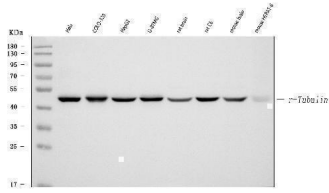
Product Name	Anti-Gamma-Tubulin Antibody (Monoclonal, GTU-88)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Gamma-Tubulin Antibody (Monoclonal, GTU-88) catalog # MA1114. Tested in ICC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ICC, WB
Clonality	Monoclonal GTU-88
Formulation	Mouse IgG in stabilizing components, 1.2% sodium acetate and 0.01mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P23258

Technical Details

Immunogen	Synthetic gamma-tubulin peptide (amino acids 38-53), conjugated to KLH.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for ICC.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Mouse IgG1
Form	Lyophilized
Concentration	Adding 1 ml of PBS buffer will yield a concentration of 100 ug/ml.
Purification	Ascites
Suggested Dilutions	Immunocytochemistry , 1ug/mlug/ml, Human, mouse, rat, - Western blot, 0.25-0.5ug/mlug/ml, Human, mouse, rat

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Anti-Gamma-Tubulin Antibody (Monoclonal, GTU-88) (MA1114) Images



Western blot analysis of Gamma-Tubulin using anti-Gamma-Tubulin antibody (MA1114). 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 COLO-320 whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human U-87MG whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat C6 whole cell lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse HEPA1-6 whole cell 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-Gamma-Tubulin antigen affinity purified monoclonal antibody (Catalog # MA1114) at 1 ug/mL 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 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for Gamma-Tubulin at approximately 55 kDa. The expected band size for Gamma-Tubulin is at 55 kDa.

1 Publications Citing This Product

1. PubMed ID: 34081985, Liu XM,Chen F,Wang L,Zhang F,Huo LJ.Checkpoint kinases are required for oocyte meiotic progression by the maintenance of normal spindle structure and chromosome condensation.Exp Cell Res.2021 May 31:112657.doi:10.1016/j.yexcr.2021.112657.Epub ahead of print. PMID:34081985.

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