

bsm-33039M**[Primary Antibody]****alpha Tubulin Mouse mAb****Bioss**
ANTIBODIES

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— DATASHEET —**Host:** Mouse**Clonality:** Monoclonal**GeneID:** 7846**Target:** alpha Tubulin**Purification:** affinity purified by Protein G**Concentration:** 1mg/ml

Storage: Size : 50ul/100ul/200ul
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Size : 200ug (PBS only)
0.01M PBS
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: bs-0159P is one synthetic peptide derived from human Tubulin-alpha 1.
Tubulin is a major cytoskeleton that has five distinct forms, designated alpha, beta, gamma, delta and epsilon tubulin. The alpha and beta tubulins form a heterodimer that polymerize into the cylindrical microtubule fibers. Both alpha and beta tubulin bind GTP. Only beta tubulin hydrolyzes GTP to GDP. This hydrolysis is a process that is linked to tubulin polymerization and microtubule formation. The alpha tubulin isomer can be modified by addition of a C-terminal tyrosine residue. This modification may influence polymerization rates. The gamma tubulin isomer is localized to centrosomes which compose the heart of the microtubule organizing center from which microtubule fibers emanate.

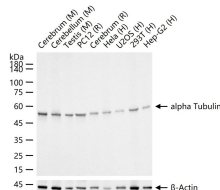
Isotype: IgG**CloneNo.:** 10F11**SWISS:** Q71U36**Applications:** WB (1:5000-100000)**IHC-P** (1:500-1000)**IHC-F** (1:500-1000)**IF** (1:500-1000)**Flow-Cyt** (1:50-100)**ICC/IF** (1:50-200)

Reactivity: Human, Mouse, Rat
(predicted: Rabbit, Pig, Zebrafish, Chicken, Dog, GuineaPig)

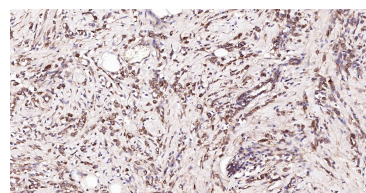
Predicted MW.: 50 kDa

Observed MW.: 50 kDa

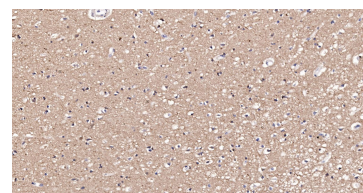
Subcellular Location: Cytoplasm

— VALIDATION IMAGES —

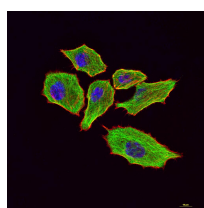
25 ug total protein per lane of various lysates (see on figure) probed with alpha Tubulin monoclonal antibody, unconjugated (bsm-33039M) at 1:10000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



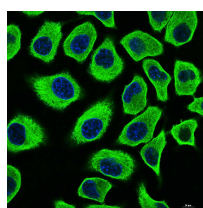
Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with alpha Tubulin Monoclonal Antibody, Unconjugated (bsm-33039M) at 1:1000 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.



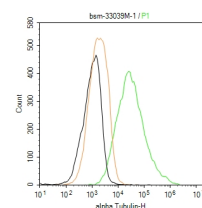
Paraformaldehyde-fixed, paraffin embedded Human Left Parietal Lobe; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with alpha Tubulin Monoclonal Antibody, Unconjugated (bsm-33039M) at 1:1000 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.



4% Paraformaldehyde-fixed HeLa (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (alpha Tubulin) monoclonal Antibody,



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The HepG2 (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then

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unconjugated (bsm-33039M) 1:100, 90 min at 37°C; followed by BF488 conjugated Goat Anti-Mouse IgG antibody (green, bs-60296G-BF488) at 37°C for 90 min, then stained with Phalloidin/BF555 for 30 min at room temperature; DAPI (blue, C02-04002) was used to stain the cell nuclei.

unconjugated (bsm-33039M) 1:100, 90 min at 37°C; followed by BF488 conjugated Goat Anti-Mouse IgG antibody (green, bs-60296G-BF488) at 37°C for 90 min. DAPI (blue, C02-04002) was used to stain the cell nuclei.

were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green):Mouse Anti-alpha Tubulin antibody (bsm-33039M,1:100); Isotype Control (orange): Mouse IgG (bs-0296P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=52.7]** Gan Shiming. et al. Targeting SKAP2 restores sperm motility and morphology through modulating mitochondrial organization and cytoskeletal remodeling. SIGNAL TRANSDUCT TAR. 2025 Dec;10(1):416 IF ;Mouse. 41436426
- **[IF=8.4]** Depeng Fang. et al. ROS-responsive nanocomposite scaffolds for sustained releasing puerarin to achieve chondroprotection in OA rats. MATER DESIGN. 2023 Aug;;112214 IF ;Rat. 10.1016/j.matdes.2023.112214
- **[IF=6.7]** Sibo Wang. et al. Design, synthesis and biological evaluation of novel tubulin-targeting agents with a dual-mechanism for polymerization inhibition and protein degradation. EUR J MED CHEM. 2024 Jun;272:116458 IF ;Human. 38703557
- **[IF=6.513]** Jinglei Wang. et al. Follicular fluid exosomes regulate OVGP1 secretion in yak oviduct epithelial cells via autophagy in vitro. J CELL PHYSIOL. 2023 Apr;; IF ;Bovine. 37013674
- **[IF=5.4]** Junling Gao. et al. Mechanisms underlying the synergistic effects of chuanxiong combined with Chishao on treating acute lung injury based on network pharmacology and molecular docking combined with preclinical evaluation. J ETHNOPHARMACOL. 2024 May;325:117862 WB ;Mouse. 38342157