- DATASHEET -

Host: Mouse

Clonality: Monoclonal

Target: alpha Tubulin

Purification: affinity purified by Protein G

GenelD: 7277

[Primary Antibody]

Isotype: IgG

CloneNo.: 10F11

SWISS: P68366

alpha Tubulin Mouse mAb



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Applications: WB (1:50000-200000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)

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

Predicted MW.: ^{50 kDa}

Subcellular Location: Cytoplasm

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: Microtubules of the eukaryotic cytoskeleton perform essential and
diverse functions and are composed of a heterodimer of alpha and

diverse functions and are composed of a heterodimer of alpha and beta tubulin. The genes encoding these microtubule constituents are part of the tubulin superfamily, which is composed of six distinct families. Genes from the alpha, beta and gamma tubulin families are found in all eukaryotes. The alpha and beta tubulins represent the major components of microtubules, while gamma tubulin plays a critical role in the nucleation of microtubule assembly. There are multiple alpha and beta tubulin genes and they are highly conserved among and between species. This gene encodes an alpha tubulin that is a highly conserved homolog of a rat testis-specific alpha tubulin. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2013]

- VALIDATION IMAGES



Sample: Lane 1: Mouse Cerebrum tissue lysates Lane 2: Mouse NIH/3T3 cell lysates Lane 3: Rat Cerebrum tissue lysates Lane 4: Human HeLa cell lysates Lane 5: Human Jurkat cell lysates Lane 6: Human A431 cell lysates Lane 7: Human U251 cell lysates Lane 8: Human 293T cell lysates Lane 9: Human HepG2 cell lysates Primary: Antialpha Tubulin (bsm-33039M) at 1/100000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 50 kDa Observed band size: 50 kDa



Paraformaldehyde-fixed, paraffin embedded (Mouse liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (alpha Tubulin) Monoclonal Antibody, Unconjugated (ascites of bsm-33039M 10F11) at 1:2000 overnight at 4°C, followed by a conjugated secondary (sp-0024) for 20 minutes and DAB staining.

- SELECTED CITATIONS -

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 - chondroprotection in OA rats. MATER DESIGN. 2023 Aug;:112214 IF ;Rat. 10.1016/j.matdes.2023.112214
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- [IF=6.7] Sibo Wang. et al. Design, synthesis and biological evaluation of novel tubulin-targeting agents with a dualmechanism for polymerization inhibition and protein degradation. EUR J MED CHEM. 2024 Jun;272:116458 IF ;Human. 38703557
- [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
- [IF=3.895] Shen X et al. Retinoic Acid-Induced Protein 14 (RAI14) Promotes mTOR-Mediated Inflammation Under Inflammatory Stress and Chemical Hypoxia in a U87 Glioblastoma Cell Line. (2018) Cell Mol Neurobiol. WB ;Human. 30554401