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## Tubulin-alpha Rabbit pAb, Loading Control

Catalog Number: bs-0159R

Target Protein: Tubulin-alpha

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1µg/Test)

Reactivity: Human, Mouse, Rat (predicted:Sheep, Cow)

Predicted MW: 50 kDa

Entrez Gene: 7846

Swiss Prot: Q71U36

Source: KLH conjugated synthetic peptide derived from human Tubulin-alpha 1: 375-448/448.

Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

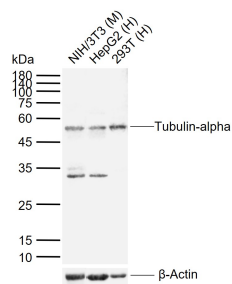
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: bs-0159P is one synthetic peptide derived from human Tubulin-alpha 1.

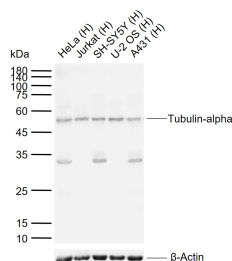
Tubulin is a major cytoskeleton that has five distinct forms, designated alpha, beta, gamma, delta and epsilon tubulin. The alpha and beta tubulins form a heterodimer that polymerize into the cylindrical microtubule fibers. Both alpha and beta tubulin bind GTP. Only beta tubulin hydrolyzes GTP to GDP. 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.

### VALIDATION IMAGES

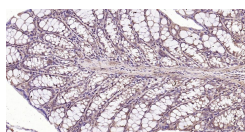
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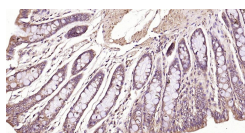
Sample: Lane 1: Mouse NIH/3T3 cell lysates Lane 2: Human HepG2 cell lysates Lane 3: Human 293T cell lysates Primary: Anti-Tubulin-alpha (bs-0159R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50 kDa Observed band size: 52 kDa



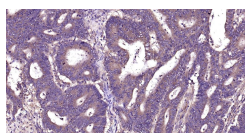
Sample: Lane 1: Human HeLa cell lysates Lane 2: Human Jurkat cell lysates Lane 3: Human SH-SY5Y cell lysates Lane 4: Human U-2 OS cell lysates Lane 5: Human A431 cell lysates Primary: Anti-Tubulin-alpha (bs-0159R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50 kDa Observed band size: 52 kDa



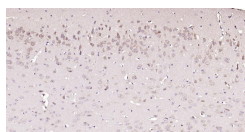
Paraformaldehyde-fixed, paraffin embedded Mouse Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Tubulin-alpha Polyclonal Antibody, Unconjugated (bs-0159R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Tubulin-alpha Polyclonal Antibody, Unconjugated (bs-0159R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Tubulin-alpha Polyclonal Antibody, Unconjugated (bs-0159R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Tubulin-alpha Polyclonal Antibody, Unconjugated (bs-0159R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=9.995] Meiting Li. et al. Acetylation of p62 regulates base excision repair through interaction with APE1. CELL REP. 2022 Jul;40:111116 WB ; Human . 35858573

[IF=8.713] Zhao-Bo Luo. et al. Fecal transplant from myostatin deletion pigs positively impacts the gut-muscle axis. ELIFE. 2023; 12: e81858 WB ; Mouse . 37039469

[IF=6.208] Jiashuang Li. et al. Overexpression of Ultrabithorax Changes the Development of Silk Gland and the Expression of Fibroin

Genes in Bombyx mori. INT J MOL SCI. 2023 Jan;24(7):6670 WB ; Bombyx mori . 37047645

[IF=5.3] Juan Wang. et al. A novel autosomal dominant ERLIN2 variant activates endoplasmic reticulum stress in a Chinese HSP family. ANN CLIN TRANSL NEUR. 2023 Sep; WB ; Human . 37752894

[IF=3.575] Li He. et al. NETs promote pathogenic cardiac fibrosis and participate in ventricular aneurysm formation after ischemia injury through the facilitation of perivascular fibrosis. Biochem Bioph Res Co. 2021 Dec;583:154 WB ; Rat . 34735877