**bs-0159R** **[ Primary Antibody ]**

# Tubulin-alpha Rabbit pAb, Loading Control

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 7846 **SWISS:** Q71U36

**Target:** Tubulin-alpha

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

**Purification:** affinity purified by Protein A

**Concentration:** 1mg/ml

**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.

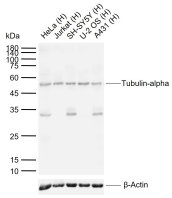
**Applications:** **WB** (1:500-2000)
**IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)
**Flow-Cyt** (1μg/Test)

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

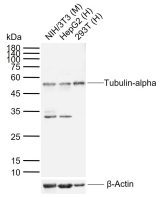
**Predicted MW.:** 50 kDa

**Subcellular Location:** Cytoplasm

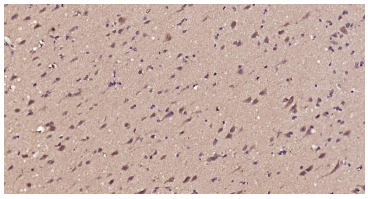
## VALIDATION IMAGES



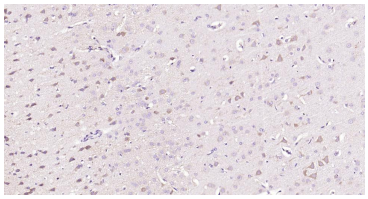

Sample: Lane 1: Human HeLa cell lysates Lane 2: Human Jurkat cell lysates Lane 3: Human SH-SY5Y cell lysates Lane 4: Human U-2 OS cell lysates Lane 5: Human A431 cell lysates Primary: Anti-Tubulin-alpha (bs-0159R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted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



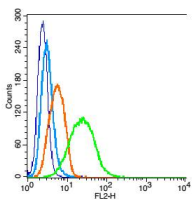

Sample: Lane 1: Mouse NIH/3T3 cell lysates Lane 2: Human HepG2 cell lysates Lane 3: Human 293T cell lysates Primary: Anti-Tubulin-alpha (bs-0159R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50 kDa Observed band size: 52 kDa



Paraformaldehyde-fixed, paraffin embedded Human 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.



Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Tubulin-alpha Polyclonal




Blank control: RSC96 Cells (blue). Primary Antibody:Rabbit Anti- Tubulin-alpha 1 antibody(bs-0159R), Dilution: 1μg in 100 μL 1X PBS containing 0.5% BSA; Isotype Control

Antibody, Unconjugated (bs-0159R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

Antibody: Rabbit IgG(orange) ,used under the same conditions ); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA. Protocol The cells were fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice. Primary antibody (bs-0159R,1μg /1x10^6 cells) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed.

## SELECTED CITATIONS


- **[IF=19]** Minghui Hu. et al. Double Self-Amplified Programmable Allosteric DNA Nanomachine for Enzymatically Triggered Spatially Controllable Molecular Imaging. ADV FUNCT MATER. 2025 May;:2501940 WB ;Human. 10.1002/adfm.202501940
- **[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