

bsm-52323R**[Primary Antibody]****Tubulin beta-III Recombinant Rabbit mAb****BioSS**
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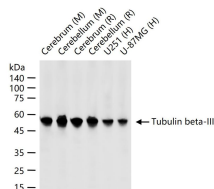
400-901-9800

DATASHEET**Host:** Rabbit**Isotype:** IgG**Clonality:** Recombinant**CloneNo.:** 3B7**GeneID:** 10381**SWISS:** Q13509**Target:** Tubulin beta-III**Immunogen:** A synthesized peptide derived from human beta III Tubulin: 400-450/450.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

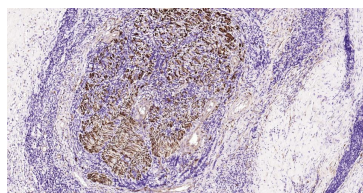
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Neuronal Marker

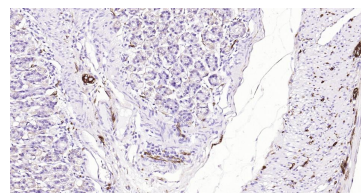
Beta III tubulin is abundant in the central and peripheral nervous systems (CNS and PNS) where it is prominently expressed during fetal and postnatal development. As exemplified in cerebellar and sympathoadrenal neurogenesis, the distribution of beta III is neuron-associated, exhibiting distinct temporospatial gradients according to the regional neuroepithelia of origin. However, transient expression of this protein is also present in the subventricular zones of the CNS comprising putative neuronal- and/or glial precursor cells, as well as in Kulchitsky neuroendocrine cells of the fetal respiratory epithelium. This temporally restricted, potentially non-neuronal expression may have implications in the identification of presumptive neurons derived from embryonic stem cells.

Applications: WB (1:2000-20000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1:50-100)**ICC/IF** (1:100-500)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 50 kDa**Observed MW.:** 50 kDa**Subcellular Location:** Cytoplasm**VALIDATION IMAGES**

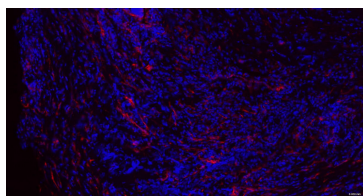
25 ug total protein per lane of various lysates (see on figure) probed with Tubulin beta-III monoclonal antibody, unconjugated (bsm-52323R) at 1:5000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



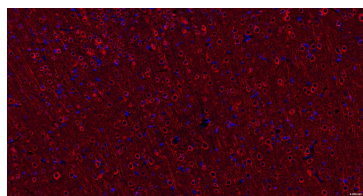
Paraformaldehyde-fixed, paraffin embedded Human Thyroid Tumor; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Tubulin beta-III Monoclonal Antibody, Unconjugated(bsm-52323R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



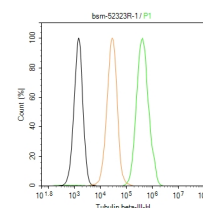
Paraformaldehyde-fixed, paraffin embedded Mouse Stomach; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Tubulin beta-III Monoclonal Antibody, Unconjugated(bsm-52323R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Thyroid tumor; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Tubulin



Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Tubulin beta-III Monoclonal



The U-87MG (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 were incubated in 5%BSA to block non-specific

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beta-III Monoclonal Antibody, Unconjugated (bsm-52323R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Red, bs-0295G-BF594), DAPI (blue, C02-04002) was used to stain the cell nuclei.

Antibody, Unconjugated (bsm-52323R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Red, bs-0295G-BF594), DAPI (blue, C02-04002) was used to stain the cell nuclei.

protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green):Rabbit Anti-Tubulin beta-III antibody (bsm-52323R,1:100); Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=7.1]** Bu'er Qi. et al. Ultrastructural Evaluation of Newly Formed Dentine After Direct Pulp Capping With Mineral Trioxide Aggregate and Calcium Hydroxide Using Focused Ion Beam Scanning Electron Microscopy and Stimulated Emission Depletion. INT ENDOD J. 2026 Mar;; mIF ;Rat. 41845550
- **[IF=6.064]** Le Wang. et al. Enteric nervous system damage caused by abnormal intestinal butyrate metabolism may lead to functional constipation. FRONT MICROBIOL. 2023; 14: 1117905 ICC ;Mouse. 37228368
- **[IF=5.195]** Lu Hong. et al. Investigation of NaoluoXintong on the neural stem cells by facilitating proliferation and differentiation in vitro and on protecting neurons by up-regulating the expression of nestin in MCAO rats. J ETHNOPHARMACOL. 2022 Sep;;115684 WB ;Rat. 36058480
- **[IF=4.3]** Yao Yunxia. et al. Mitochondrial Proteins in Putative Neuron-Derived Plasma Exosomes Are Altered in Parkinson' s Disease: An Exploratory Study. MOL NEUROBIOL. 2026 Jan;63(1):525 WB ;Human. 41886195