

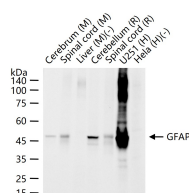
bsm-52254R**[Primary Antibody]****Bioss**
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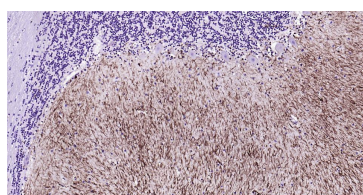
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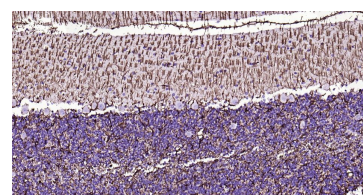
400-901-9800

GFAP Recombinant Rabbit mAb**DATASHEET****Host:** Rabbit**Clonality:** Recombinant**GeneID:** 2670**Target:** GFAP**Immunogen:** A synthesized peptide derived from human GFAP: 1-41.**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:** This gene encodes one of the major intermediate filament proteins of mature astrocytes. It is used as a marker to distinguish astrocytes from other glial cells during development. Mutations in this gene cause Alexander disease, a rare disorder of astrocytes in the central nervous system. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Oct 2008]**Isotype:** IgG**CloneNo.:** 3F4**SWISS:** P14136**Applications:** WB (1:1000-50000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1:50-100)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 48 kDa**Observed MW.:** 48 kDa**Subcellular Location:** Cytoplasm**VALIDATION IMAGES**

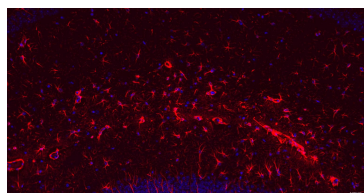
25 ug total protein per lane of various lysates (see on figure) probed with GFAP monoclonal antibody, unconjugated (bsm-52254R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



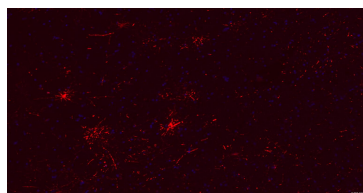
Paraformaldehyde-fixed, paraffin embedded Human Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GFAP Monoclonal Antibody, Unconjugated (bsm-52254R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



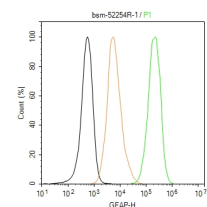
Paraformaldehyde-fixed, paraffin embedded Rat Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GFAP Monoclonal Antibody, Unconjugated (bsm-52254R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with GFAP Monoclonal Antibody, Unconjugated (bsm-52254R) 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.



Paraformaldehyde-fixed, paraffin embedded Human Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with GFAP Monoclonal Antibody, Unconjugated (bsm-52254R) 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.



The U-251 MG (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 protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green): Rabbit Anti-GFAP antibody (bsm-52254R, 1:100); Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

— SELECTED CITATIONS —

- **[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=8.1]** Jia Wen. et al. The role and mechanisms of vitamin A in suppressing hepatic stellate cell activation. APOPTOSIS. 2026 Jan;31(1):46 WB ;Human. 41528567
- **[IF=5]** Guifeng Zhang. et al. Sea Cucumber Egg Oligopeptides Ameliorate Cognitive Impairments and Pathology of Alzheimer' s Disease Through Regulating HDAC3 and BDNF/NT3 via the Microbiota–Gut–Brain Axis. NUTRIENTS. 2025 Jan;17(14):2312 WB ;Mouse. 40732937
- **[IF=4.755]** Hou Yujun. et al. Maintenance of Intestinal Homeostasis in Diarrhea-Predominant Irritable Bowel Syndrome by Electroacupuncture Through Submucosal Enteric Glial Cell-Derived S-Nitrosoglutathione. FRONT PHYSIOL. 2022 Aug;0:1368 IF ;Rat. 36105292
- **[IF=4]** Dan Pu. et al. Combined supplementation of short-chain fatty acids reduces hyperphosphorylation of Tau at T181,T231 and S396 sites and improves cognitive impairment in a chemically induced AD mouse model via regulation of HDAC and Keap1. NEUROCHEM INT. 2025 Oct;189:106034 WB ;Mouse. 40812734