**bsm-33192M** **[ Primary Antibody ]**

# GAP43 Mouse mAb

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## DATASHEET

**Host:** Mouse
**Isotype:** IgG
**Clonality:** Monoclonal
**CloneNo.:** 6F11
**GeneID:** 2596
**SWISS:** P17677
**Target:** GAP43
**Purification:** affinity purified by Protein G
**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:** The protein encoded by this gene has been termed a 'growth' or 'plasticity' protein because it is expressed at high levels in neuronal growth cones during development and axonal regeneration. This protein is considered a crucial component of an effective regenerative response in the nervous system. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

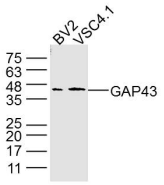
**Applications:** **WB** (1:500-2000)
**IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)
**ICC/IF** (1:50-200)

**Reactivity:** Human, Mouse, Rat

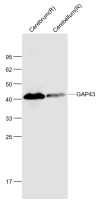
**Predicted MW.:** 43 kDa

**Subcellular Location:** Extracellular matrix ,Cell membrane ,Cytoplasm

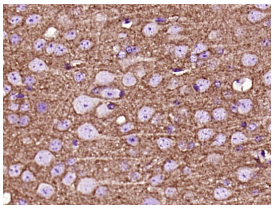
## VALIDATION IMAGES



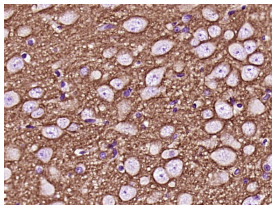

Sample: BV2 (Mouse) Lysate at 40 ug VSC4.1(Rat) Lysate at 40 ug Primary: Anti-GAP43 (bsm-33192M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 43 kD Observed band size: 43 kD



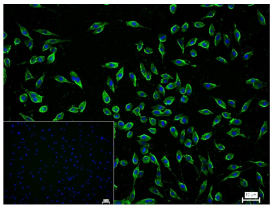
Sample: Cerebrum(Rat) Lysate at 40 ug Cerebellum(Rat) Lysate at 40 ug Primary: Anti-GAP43 (bsm-33192M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 43-46 kD Observed band size: 43 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (GAP43) Monoclonal Antibody, Unconjugated (bs-33192M-8A8) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); 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 (GAP43) Monoclonal Antibody,



4% Paraformaldehyde-fixed SH-SY5Y (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (GAP43) monoclonal Antibody, unconjugated (bsm-33192M) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Mouse IgG antibody (green, bs-40296G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain

Unconjugated (bs-33192M-8A8) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.

the cell nuclei. PBS instead of the primary antibody was used as the blank control.

## SELECTED CITATIONS

- **[IF=7.9]** Mei-feng Zhang. et al. Catalpol attenuates ischemic stroke by promoting neurogenesis and angiogenesis via the SDF-1α/CXCR4 pathway. PHYTOMEDICINE. 2024 Jan;:155362 WB ;Rat. 10.1016/j.phymed.2024.155362
- **[IF=3.7]** Sun Xuri. et al. Exogenous NT-3 Promotes Phenotype Switch of Resident Macrophages and Improves Sciatic Nerve Injury through AMPK/NF-κB Signaling Pathway. NEUROCHEM RES. 2024 Jun;:1-15 IF,WB ;Rat. 38904909