bs-0154R

[Primary Antibody]

GAP43 Rabbit pAb

— DATASHEET —

Host: Rabbit

Isotype: IgG

Clonality: Polyclonal

GeneID: 2596

SWISS: P17677

Target: GAP43

Immunogen: KLH conjugated synthetic peptide derived from human GAP43: 9-100/238.

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: 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: **IHC-P** (1:100-500)
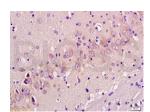**IHC-F** (1:100-500)
IF (1:200-800)

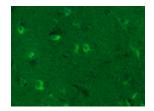**Reactivity:** Human, Mouse, Rat (predicted: Chicken, Dog)

Predicted MW.: 25/46 kDa

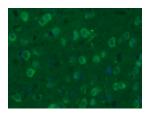**Subcellular Location:** Extracellular matrix ,Cell membrane ,Cytoplasm

— VALIDATION IMAGES —

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-GAP-43 Polyclonal Antibody, Unconjugated(bs-0154R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Paraformaldehyde-fixed, paraffin embedded (Human glioma); 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) Polyclonal Antibody, Unconjugated (bs-0154R) at 1:400 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (bs-0295G-FITC) for 90 minutes, and DAPI for nuclei staining.

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) Polyclonal Antibody, Unconjugated (bs-0154R) at 1:400 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (bs-0295G-FITC) for 90 minutes, and DAPI for nuclei staining.

— SELECTED CITATIONS —

- **[IF=15.84]** Han Yang. et al. A Novel Targeted and High‑Efficiency Nanosystem for Combinational Therapy for Alzheimer's Disease. Adv Sci. 2020 Oct;7(19):1902906 IF,FCM ;Mouse. 33042734

- **[IF=5.546]** Yifan Wang. et al. Positive effect of Astragaloside IV on neurite outgrowth via talin‑dependent integrin signaling and microfilament force. J Cell Physiol. 2021 Mar;236(3):2156-2168 IF ;Human. 32853433

- **[IF=4.73]** Erdal Ayhan Işik. et al. Use of Erythropoietin and Fibrin Glue Mixture for Peripheral Nerve Repair. Plast Reconstr Surg. 2022 Feb;149(2):395-403 IHC ;Rat. 34898529

- **[IF=4.6]** Yumei Zheng. et al.Abdominal LIPUS Stimulation Prevents Cognitive Decline in Hind Limb Unloaded Mice by

Regulating Gut Microbiota.MOLECULAR NEUROBIOLOGY.2025 Jan 29. Western blot ;Mouse. 39878866

- **[IF=4.411]** Pingan Chen. et al. The influence of inhibiting renal neural regeneration on the efficacy of renal denervation to chronic heart failure. 2021 Oct 22 WB ;Rat. 34687148