

Anti-GAP43 Antibody (6V411)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 43 kDa. Actual: 43 kDa.
Clone:	6V411
Purification:	Protein G purified

Applications

1. Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GAP43) Monoclonal Antibody, Unconjugated at 1:400 overnight at 4°C, followed by a conjugated secondary antibody for 20 min and DAB staining.
2. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GAP43) Monoclonal Antibody, Unconjugated at 1:400 overnight at 4°C, followed by a conjugated secondary antibody for 20 min and DAB staining.
3. Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GAP43) Monoclonal Antibody, Unconjugated (TMAB-00739) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.
4. Sample:
Spinal cord (Mouse) Lysate at 40 µg
Spinal cord (Rat) Lysate at 40 µg
Primary: Anti-GAP43 (TMAB-00739) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution
Predicted band size: 43-46 kDa
Observed band size: 43 kDa
5. Sample:
Cerebrum (Rat) Lysate at 40 µg
Cerebellum (Rat) Lysate at 40 µg
Primary: Anti-GAP43 (TMAB-00739) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution
Predicted band size: 43-46 kDa
Observed band size: 43 kDa
6. Sample:
BV2 (Mouse) Lysate at 40 µg
VSC4.1 (Rat) Lysate at 40 µg
Primary: Anti-GAP43 (TMAB-00739) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution
Predicted band size: 43 kDa
Observed band size: 43 kDa

Verified Activity:

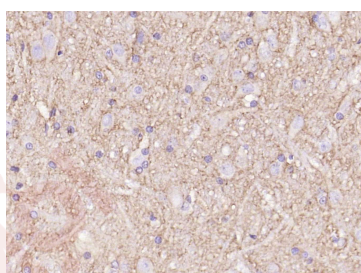
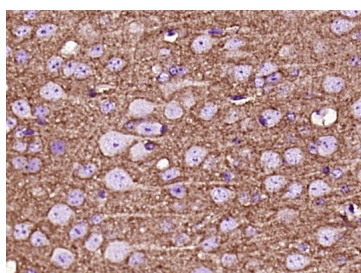
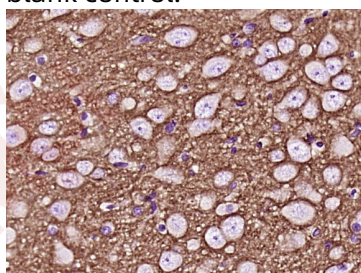
7. Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GAP43) Monoclonal Antibody, Unconjugated (ascites of TMAB-00739 5F2) at 1:2000 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.

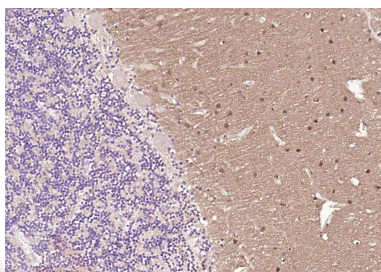
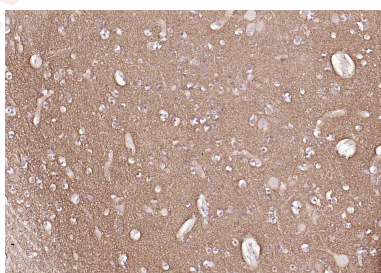
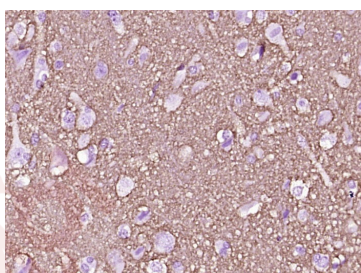
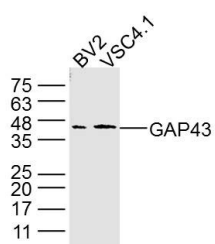
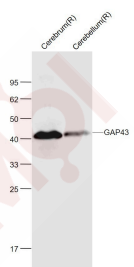
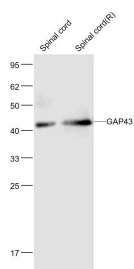
8. Paraformaldehyde-fixed, paraffin embedded (human brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (GAP43) Monoclonal Antibody, Unconjugated (TMAB-00739) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.

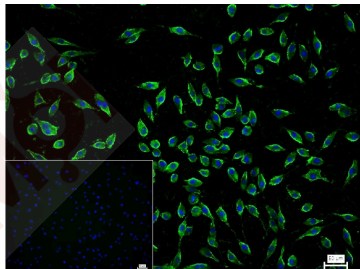
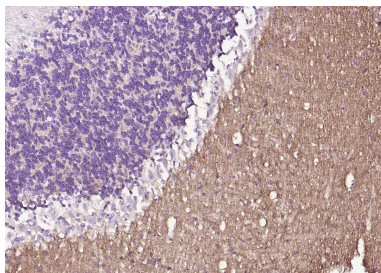
9. Paraformaldehyde-fixed, paraffin embedded (human cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (GAP43) Monoclonal Antibody, Unconjugated (TMAB-00739) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.

10. Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (GAP43) Monoclonal Antibody, Unconjugated (TMAB-00739) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.

11. 4% Paraformaldehyde-fixed SH-SY5Y (H) cell; Triton X-100 at RT for 20 min; Antibody incubation with (GAP43) monoclonal Antibody, unconjugated (TMAB-00739) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Mouse IgG antibody (green) at 37°C for 90 min, DAPI (blue) was used to stain the cell nucleus. PBS instead of the primary antibody was used as the blank control.







Application: ICC/IF,IF,IHC-Fr,IHC-P,WB

Recommended ICC/IF=1:50-200; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500; WB=1:500-2000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: human GAP43 Protein

Antigen Species: Human

Gene ID: 2596

Uniprot ID: P17677

Synonyms: B-50;PP46;growth associated protein 43

Biology Area: Growth Cone,Synapse marker,Axonal Guidance Proteins

Research 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]

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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