Product Datasheet

GAP43 Antibody

Catalog No: #48583

Package Size: #48583-1 50ul #48583-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

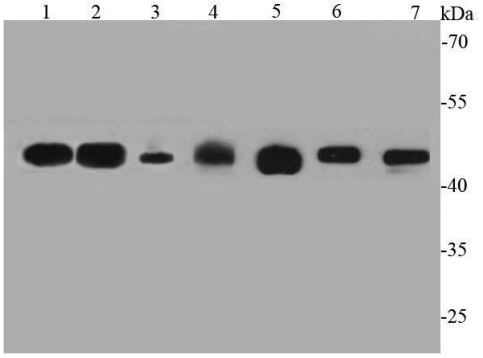
Description

Product Name	GAP43 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Peptide affinity purified
Applications	WB, ICC, IHC, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	peptide
Other Names	Axonal membrane protein GAP 43 antibody Axonal membrane protein GAP-43 antibody B 50 antibody Calmodulin binding protein P 57 antibody F1 antibody GAP 43 antibody GAP43 antibody Growth Associated Protein 43 antibody Growth-associated protein 43 antibody Nerve Growth Related Peptide antibody Nerve growth related peptide GAP43 antibody NEUM_HUMAN antibody Neural phosphoprotein B 50 antibody Neural phosphoprotein B-50 antibody Neuromodulin antibody Neuron growth associated protein 43 antibody PP46 antibody Protein F1 antibody QtrA-11580 antibody QtrA-13071 antibody
Accession No.	Swiss-Prot#:P06837
Uniprot	P06837
GeneID	14432;
Calculated MW	43 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

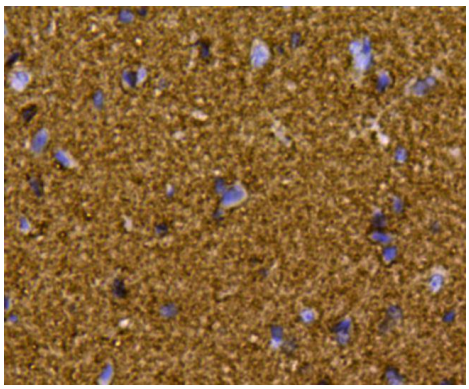
Application Details

WB: 1:1,000 IHC: 1:200 ICC: 1:200 FC: 1:100-1:200

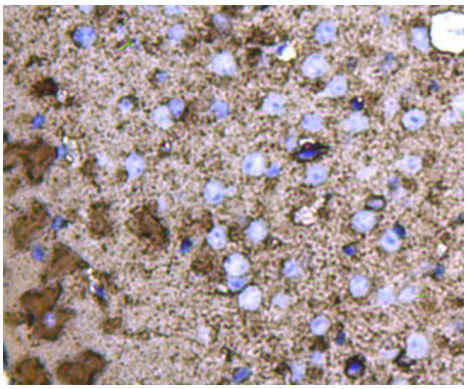
Images



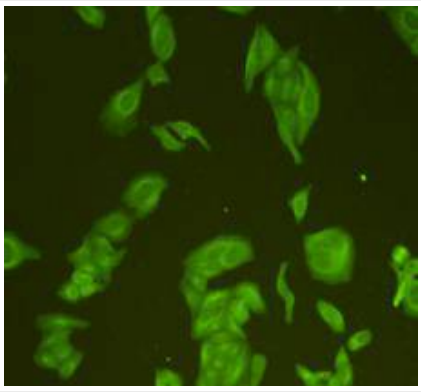
Western blot analysis of GAP43 on different cell lysates using anti-GAP43 antibody at 1/1000 dilution. Positive control: Lane 1: Rat brain Lane 2: Mouse brain Lane 3: Mouse heart Lane 4: Human skeletal muscle Lane 5: N2A Lane 6: A172 Lane 7: Human heart



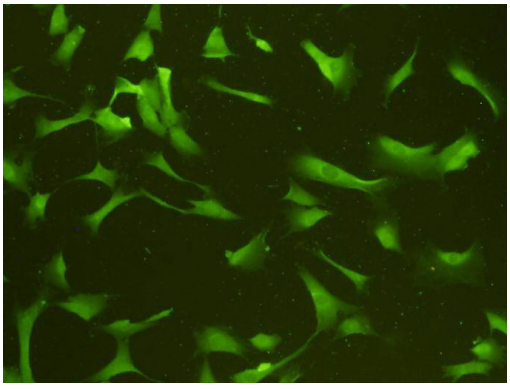
Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-GAP43 antibody. Counter stained with hematoxylin.



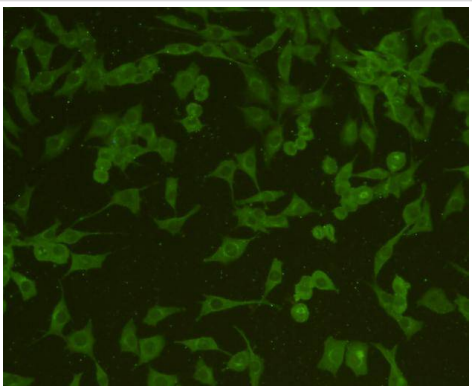
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-GAP43 antibody. Counter stained with hematoxylin.



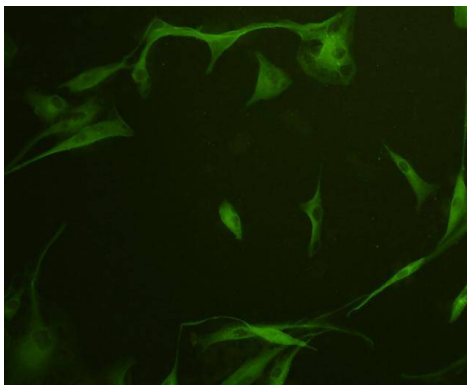
ICC staining GAP43 in Hela cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining GAP43 in NIH/3T3 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining GAP43 in SHG-44 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining GAP43 in A172 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

GAP43, is a nervous tissue-specific cytoplasmic protein that can be attached to the membrane via a dual palmitoylation sequence on cysteines 3 and 4. This sequence targets GAP43 to lipid rafts. It is a major protein kinase C (PKC) substrate and is considered to play a key role in neurite formation, regeneration, and plasticity. The role of GAP-43 in CNS development is not limited to effects on axons: It is also a component of the centrosome, and differentiating neurons that do not express GAP-43 show mislocalization of the centrosome and mitotic spindles, particularly in neurogenic cell divisions. As a consequence, in the cerebellum, the neuronal precursor pool fails to expand normally and the cerebellum is significantly smaller.

References

Note: This product is for in vitro research use only