

GAP43 (phospho-S41) polyclonal antibody

Catalog: BS4791

Host: Rabbit

Reactivity: Human, Mouse, Rat

Background:

GAP-43 (growth associated protein 43, B-50, PP46, calmodulin-binding protein P-57, neuromodulin, neuron growth-associated protein 43, protein F1) is a crucial component for regenerative response in the nervous system. It is present at high levels in neuronal growth cones during development and axonal regeneration. GAP-43 is normally produced by neurons during developmental growth and axonal regeneration, but it is also expressed in specific regions of the normal adult nervous system. The neuron-specific Elav/Hu family member, HuD, interacts with and stabilizes GAP-43 mRNA in developing neurons and leads to increased levels of GAP-43 protein.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 25, 48 kDa

Swiss-Prot:

P17677

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

IF: 1:50~1:200

Storage&Stability:

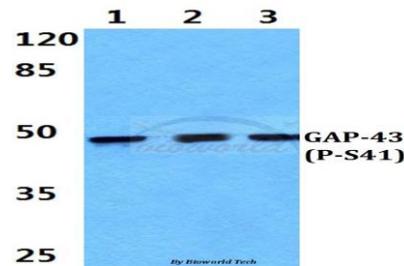
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

p-GAP-43 (S41) polyclonal antibody detects endogenous

levels of GAP-43 protein only when phosphorylated at Ser41.

DATA:

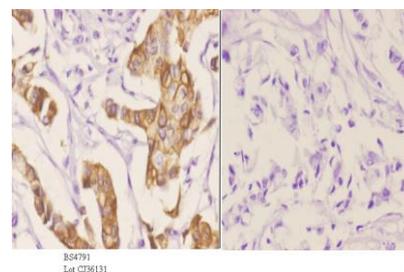


Western blot (WB) analysis of p-GAP-43 (S41) polyclonal antibody at 1:500 dilution

Lane1:Hela cell lysate treated with PMA(100nM,30mins)

Lane2:Raw264.7 cell lysate treated with PMA(100nM,30mins)

Lane3:PC12 cell lysate treated with PMA(100nM,30mins)



Immunohistochemistry (IHC) analyzes of p-GAP43 (S41) pAb in paraffin-embedded human breast carcinoma tissue at 1:50, showing cell membrane staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.

Note:

For research use only, not for use in diagnostic procedure.

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