

GAP43 polyclonal antibody

Catalog: BS67791

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

GAP43 is a nervous system specific, growth-associated protein enriched in growth cones and areas of high plasticity. Phosphorylation of GAP43 at Ser41 by PKC is regulated by intracellular Ca^{2+} and affects the ability of GAP43 to bind calmodulin. GAP43 is integral to growth cone formation, neurite outgrowth, and the development of a functional cerebral cortex. Aberrant GAP43 expression can be seen in patients diagnosed with schizophrenia and Alzheimer's disease.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 43 kDa

Swiss-Prot:

P17677

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IF/ICC (1/50 - 1/200)

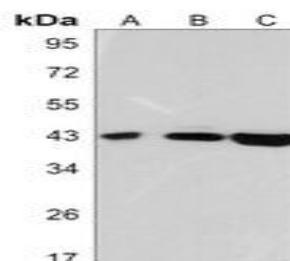
Storage&Stability:

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

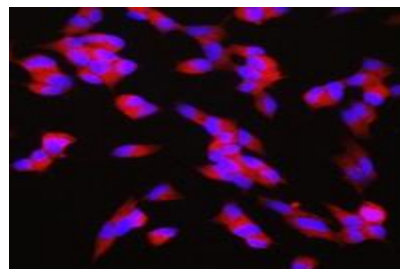
Specificity:

Recognizes endogenous levels of GAP43 protein.

DATA:



Western blot analysis of GAP43 expression in U251MG (A), mouse heart (B), rat brain (C) whole cell lysates.



Immunofluorescent analysis of GAP43 staining in SHSY5Y cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Note:

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

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