

GAP-43 (phospho Ser41) Polyclonal Antibody

Catalog No: YP0119

Reactivity: Human; Mouse; Rat

Applications: IF;ELISA

Target: GAP-43

Gene Name: GAP43

Protein Name: Neuromodulin

P17677

P06837

Human Gene Id: 2596

Human Swiss Prot

No:

Mouse Gene Id: 14432

Mouse Swiss Prot

No:

Rat Gene ld: 29423

Rat Swiss Prot No: P07936

Immunogen: The antiserum was produced against synthesized peptide derived from human

GAP43 around the phosphorylation site of Ser41. AA range:8-57

Specificity: Phospho-GAP-43 (S41) Polyclonal Antibody detects endogenous levels of

GAP-43 protein only when phosphorylated at S41.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.



Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight: 25kD

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],

Function:

function:This protein is associated with nerve growth. It is a major component of the motile "growth cones" that form the tips of elongating axons.,online information:Gap-43 entry,PTM:Phosphorylation of this protein by a protein kinase C is specifically correlated with certain forms of synaptic plasticity.,similarity:Belongs to the neuromodulin family.,similarity:Contains 1 IQ domain.,subcellular location:Cytoplasmic surface of growth cone and synaptic plasma membranes.,subunit:Binds calmodulin with a greater affinity in the absence of Ca(2+) than in its presence.,

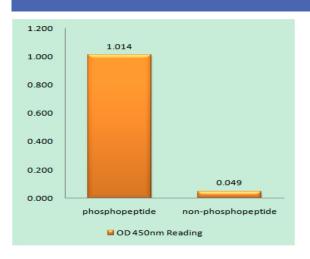
Subcellular Location:

Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Cell projection, growth cone membrane ; Peripheral membrane protein ; Cytoplasmic side . Cell junction, synapse . Cell projection, filopodium membrane ; Peripheral membrane protein . Perikaryon . Cell projection, dendrite . Cell projection, axon . Cytoplasm . Cytoplasmic surface of growth cone and synaptic plasma membranes. .

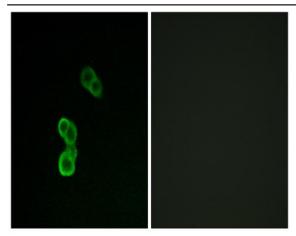
Expression:

Alzheimer cortex, Brain, Subthalamic nucleus,

Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using GAP43 (Phospho-Ser41) Antibody



Immunofluorescence analysis of MCF-7 cells, using GAP43 (Phospho-Ser41) Antibody. The picture on the right is blocked with the phospho peptide.