



GAP-43 (phospho Ser41) Polyclonal Antibody

Catalog No	YP-Ab-12634
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	IF;ELISA
Gene Name	GAP43
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Axonal membrane protein GAP 43;Axonal membrane protein GAP-43;B 5; Calmodulin binding protein P 57;F1;GAP 43;GAP43;Growth Associated Protein 43;Growth-associated protein 43;Nerve Growth Related Peptide;Nerve growth related peptide GAP43;NEUM_HUMAN;Neural phosphoprotein B 5;Neural phosphoprotein B-5;Neuromodulin;Neuron growth associated protein 43;PP46; Protein F1;QtrA-1158;QtrA-1371;GAP-43;Neural phosphoprotein B-50
Observed Band	
Calculated Molecular Weight	
Cell Pathway	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. .
Tissue Specificity	Alzheimer cortex,Brain,Subthalamic nucleus,



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.,

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],

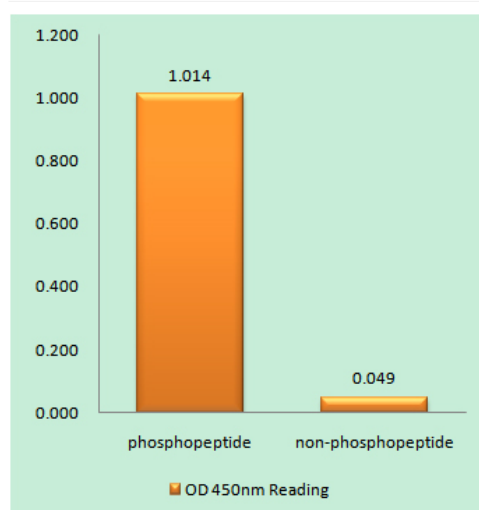
matters needing attention

Avoid repeated freezing and thawing!

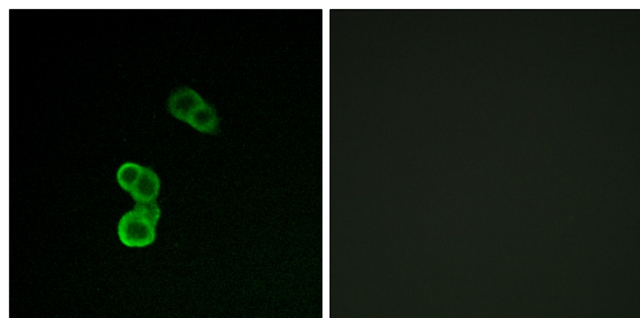
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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 phosphopeptide.