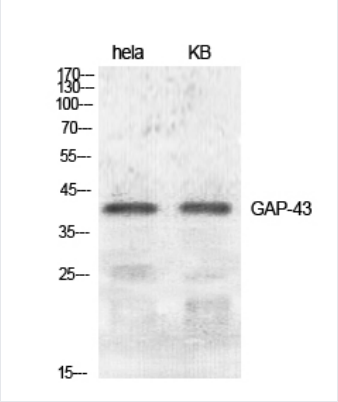
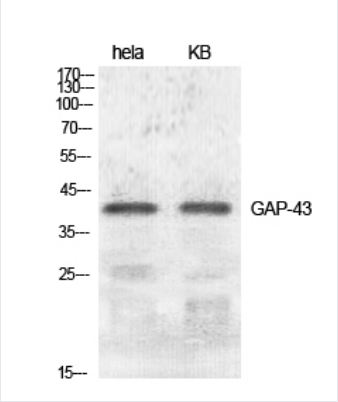
GAP-43 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GAP-43, Polyclonal Antibody
Full Product Name	GAP-43 Polyclonal Antibody
Product Gene Name	anti-GAP-43 antibody
Product Synonym Gene Name	GAP43
Product Synonym Names	GAP43; Neuromodulin; Axonal membrane protein GAP-43; Growth-associated protein 43; Neural phosphoprotein B-50; pp46
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	24,803 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (115342151..115440334). Location: 3q13.1-q13.2
OMIM	162060
3D Structure	ModBase 3D Structure for P17677
Applications Tested/Suitable for anti-GAP-43 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P)
Related Product Information for anti-GAP-43 antibody	This protein is associated with nerve growth. It is a major component of the motile "growth cones" that form the tips of elongating axons. Plays a role in axonal and dendritic filopodia induction.
Other Notes	Small volumes of anti-GAP-43 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GAP-43 purchase	MBS9243732 is an antibody targeting GAP-43. Also known as GAP-43 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-GAP-43 antibody
Dilution: Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.



Western Blot (WB) of anti-GAP-43 antibody
Dilution: Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GAP-43. It may not necessarily be applicable to this product.

NCBI GI #	194248057
NCBI GeneID	2596
NCBI Accession #	NP_001123536.1
UniProt Primary Accession #	P17677
UniProt Secondary Accession #	A8K0Y4
UniProt Related Accession #	P17677
GenBank Nucleotide #	NM_001130064.1
NCBI Official Full Name	neuromodulin isoform 1
NCBI Official Synonym Full Names	growth associated protein 43
NCBI Official Symbol	GAP43
NCBI Official Synonym Symbols	B-50; PP46
UniProt Protein Name	Neuromodulin
UniProt Synonym Protein Names	Axonal membrane protein GAP-43; Growth-associated protein 43; Neural phosphoprotein B-50; pp46
Protein Family	Neuromodulin
UniProt Gene Name	GAP43
UniProt Entry Name	NEUM_HUMAN
NCBI Protein Information	neuromodulin; protein F1; neural phosphoprotein B-50; growth-associated protein 43; axonal membrane protein GAP-43; calmodulin-binding protein P-57; nerve growth-related peptide GAP43; neuron growth-associated protein 43
NCBI Summary for GAP-43	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]
UniProt Comments for GAP-43	GAP43: This protein is associated with nerve growth. It is a major component of the motile growth cones that form the tips of elongating axons. Plays a role in axonal and dendritic filopodia induction. Identified in a complex containing FGFR4, NCAM1, CDH2, PLCG1, FRS2, SRC, SHC1, GAP43 and CTTN. Binds calmodulin with a greater affinity in the absence of Ca(2+) than in its presence. Belongs to the neuromodulin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell surface Chromosomal Location of Human Ortholog: 3q13.31 Cellular Component: filopodium membrane; axon; cytoplasm; postsynaptic density; plasma membrane; cell junction Molecular Function: calmodulin binding; protein binding Biological Process: cell fate commitment; glial cell differentiation; tissue regeneration; regulation of growth; axon choice point recognition; protein kinase C activation; response to wounding; regulation of filopodium formation
Research Articles on GAP-43	**1.** Dynamic palmitoylation links cytosol-membrane shuttling of acyl-protein thioesterase-1 and acyl-protein thioesterase-2 with that of proto-oncogene H-ras product and growth-associated protein-43

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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