GAP43 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GAP43, Polyclonal Antibody
Full Product Name	GAP43 Polyclonal Antibody
Product Gene Name	anti-GAP43 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	24kDa; 28kDa
OMIM	162060
3D Structure	ModBase 3D Structure for P17677
Immunogen	Recombinant protein of human GAP43 (NP_002036.1).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GAP43 antibody	Western Blot (WB)
Application Notes for anti-GAP43 antibody	WB: 1:500-1:2000
Related Product Information for anti-GAP43 antibody	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.
Other Notes	Small volumes of anti-GAP43 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 GAP43 purchase	MBS8572891 is an antibody targeting GAP43. Also known as GAP43 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GAP43. 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 Related Accession #	P17677
GenBank Nucleotide #	NP_001123536.1
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
UniProt Comments for GAP43	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 GAP43	**1.** GAP43 is an independent predictor of non-small cell lung cancer brain metastasis.
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