

Rabbit GAP43 Polyclonal Antibody | anti-GAP43 antibody

GAP43 Antibody

CATALOG # AAA327319	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Western Blot
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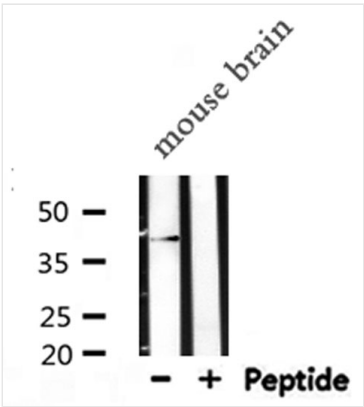
PRODUCT SYNONYMS

GAP43; Polyclonal Antibody; GAP43 Antibody; Axonal membrane protein GAP 43; Axonal membrane protein GAP-43; B 50; Calmodulin binding protein P 57; F1; GAP 43; Growth Associated Protein 43; Growth-associated protein 43; Nerve Growth Related Peptide; Nerve growth related peptide GAP43; NEUM_HUMAN; Neural phosphoprotein B 50; Neural phosphoprotein B-50; Neuromodulin; Neuron growth associated protein 43; PP46; Protein F1; QtrA-11580; QtrA-13071; anti-GAP43 antibody

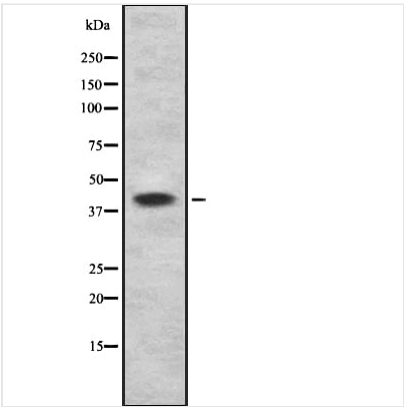
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GAP43 antibody detects endogenous levels of total GAP43
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	274
Applicable Applications for anti-GAP43 antibody	ELISA, WB (Western Blot)
Immunogen	A synthesized peptide derived from human GAP43
Subcellular Location	Cell Membrane. Cell Projection > Growth Cone Membrane. Cell Junction > Synapse. Cytoplasmic surface of growth cone and synaptic plasma membranes.
Predicted Cross Reactivity	Pig, Bovine, Rabbit, Dog
Similarity	Pig (88%), Bovine (88%), Rabbit (88%), Dog (88%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of GAP43 expression in Mouse brain lysate



WB (Western Blot)
Western blot analysis of GAP43 using COLO205 whole lysates.

ADDITIONAL INFORMATION

Related Product Information for anti-GAP43 antibody	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. Plays a role in axonal and dendritic filopodia induction. Subunit Structure: 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 Ca2+ than in its presence. Post-translational Modifications: Phosphorylated at Ser-41 by PHK. Phosphorylation of this protein by a protein kinase C is specifically correlated with certain forms of synaptic plasticity. Palmitoylation by ARF6 is essential for plasma membrane association and axonal and dendritic filopodia induction. Deacylated by LYPLA2. Similarity: Belongs to the neuromodulin family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	194248057
NCBI GeneID	2596
NCBI Accession #	NP_001123536.1
NCBI GenBank Nucleotide #	NM_001130064.1
UniProt Accession #	P17677; A8K0Y4
Molecular Weight	Observed: 43 kDa Predicted: 25 kDa
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
NCBI Protein Information	neuromodulin
UniProt Protein Name	Neuromodulin
UniProt Gene Name	GAP43

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.