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GAP43 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full-length recombinant GAP43.
Catalog # AT2150a

Product Information

Application	WB, E
Primary Accession	P17677
Other Accession	BC007936
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3C11
Calculated MW	24803

Additional Information

Gene ID	2596
Other Names	Neuromodulin, Axonal membrane protein GAP-43, Growth-associated protein 43, Neural phosphoprotein B-50, pp46, GAP43
Target/Specificity	GAP43 (AAH07936, 1 a.a. ~ 238 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	GAP43 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

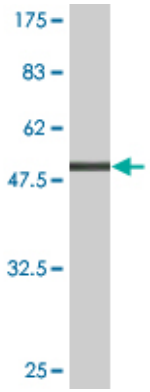
The protein encoded by this gene has been termed a 'growth' or 'plasticity' protein because it is expressed at high levels in neuronal growth cones during development and axonal regeneration. This protein is considered a crucial component of an effective regenerative response in the nervous system. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.

References

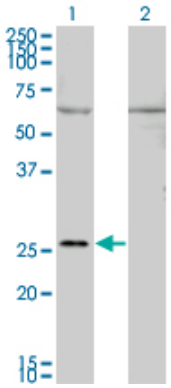
Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.Functional cooperation between TrkA and

p75(NTR) accelerates neuronal differentiation by increased transcription of GAP-43 and p21(CIP/WAF) genes via ERK1/2 and AP-1 activities. Diolaiti D, et al. Exp Cell Res, 2007 Aug 15. PMID 17619016.Coordinated expression of HuD and GAP-43 in hippocampal dentate granule cells during developmental and adult plasticity. Bolognani F, et al. Neurochem Res, 2007 Dec. PMID 17577668.Growth-associated protein 43-positive sensory nerve fibers accompanied by immature vessels are located in or near peritoneal endometriotic lesions. Mechsner S, et al. Fertil Steril, 2007 Sep. PMID 17412328.The LIFEdb database in 2006. Mehrle A, et al. Nucleic Acids Res, 2006 Jan 1. PMID 16381901.

Images

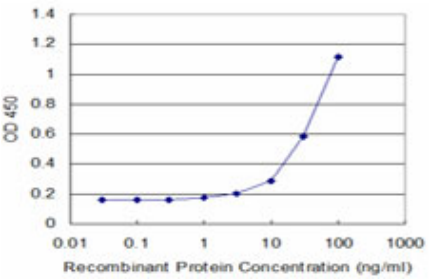


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (51.92 KDa) .



Western Blot analysis of GAP43 expression in transfected 293T cell line by GAP43 monoclonal antibody (M01), clone 3C11.

Lane 1: GAP43 transfected lysate(24.8 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged GAP43 is approximately 3ng/ml as a capture antibody.