

Datasheet for ABIN350110
anti-GAP43 antibody (pSer41)



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1 Image

Overview

Quantity:	500 µg
Target:	GAP43
Binding Specificity:	pSer41
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GAP43 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Rabbit antibody to phospho S41 GAP43
Immunogen:	A synthetic peptide to phospho S41 of human Axonal membrane protein GAP-43 conjugated to blue carrier protein was used as the antigen. The peptide is homologous in many species including rat mouse and zebrafish.
Isotype:	IgG
Specificity:	Specific for GAP-43.
Cross-Reactivity:	Human, Mouse, Rat
Cross-Reactivity (Details):	Other species not yet tested.
Purification:	IgG

Target Details

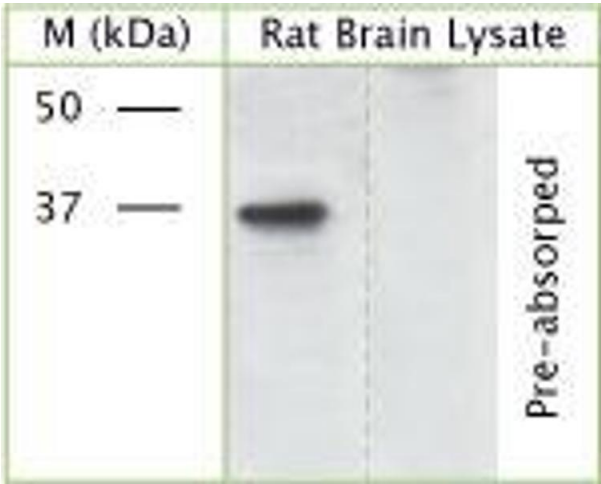
Target:	GAP43
Alternative Name:	GAP43 (GAP43 Products)
Background:	FUNCTION: This protein is associated with nerve growth. It is a major component of the motile "growth cones" that form the tips of elongating axons. SUBUNIT: Binds calmodulin with a greater affinity in the absence of Ca(2+) than in its presence. SUBCELLULAR LOCATION: Cell membrane, Peripheral membrane protein, Cytoplasmic side. Cell projection growth cone membrane, Peripheral membrane protein, Cytoplasmic side. Cell junction synapse. Note: Cytoplasmic surface of growth cone and synaptic plasma membranes.
UniProt:	P17677

Application Details

Application Notes:	IHC WB. Use at a concentration of 10-50 µg/ml. The optimal working concentration should be determined by the end user. Not yet tested in other applications. This antibody may also recognise the unphosphorylated form.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute in 500 µL of sterile water. Centrifuge to remove any insoluble material.
Handling Advice:	Avoid freeze and thaw cycles.
Storage:	4 °C, -20 °C
Storage Comment:	Maintain the lyophilised/reconstituted antibodies frozen at -20C for long term storage and refrigerated at 2-8C for a shorter term. When reconstituting glycerol (1:1) may be added for an additional stability. Avoid freeze and thaw cycles.
Expiry Date:	12 months



Western Blotting

Image 1. WB on rat brain lysate using Rabbit antibody to phospho S41 of Axonal membrane protein GAP-43 (Neuromodulin, growth-associated protein 43): IgG (ABIN350110) at 50 µg/ml concentration incubated overnight at 4°C. Pre-absorption of the antibody with the immunising peptide completely abolishes the detected band.