abcam

Product datasheet

Anti-GAP43 antibody - Neuronal Marker ab16053

★★★★☆ **12 Abreviews**   **65 References**   3 图像

概述

产品名称	Anti-GAP43抗体- Neuronal Marker
描述	兔多克隆抗体to GAP43 - Neuronal Marker
宿主	Rabbit
特异性	This antibody does not perform well in IHC-P (abreview 21090, 21089)
经测试应用	**适用于:** WB, IHC (PFA fixed) **不适用于:** IHC-P
种属反应性	**与反应:** Mouse, Rat **预测可用于:** Human, Chimpanzee ⚠
免疫原	Synthetic peptide corresponding to Rat GAP43 aa 200 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as **ab16379**)
常规说明	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee	Abpromise™承诺保证使用ab16053于以下的经测试应用

"应用说明"部分 下显示的仅为**推荐的起始稀释度**；实际**最佳**的**稀释度/浓度**应**由使用者**检定。

应用	Ab评论	说明
WB	★★★★☆ (3)	Use a concentration of 1 µg/ml. Detects a band of approximately 43-53 kDa (predicted molecular weight: 43-53 kDa).
IHC (PFA fixed)		Use at an assay dependent concentration.

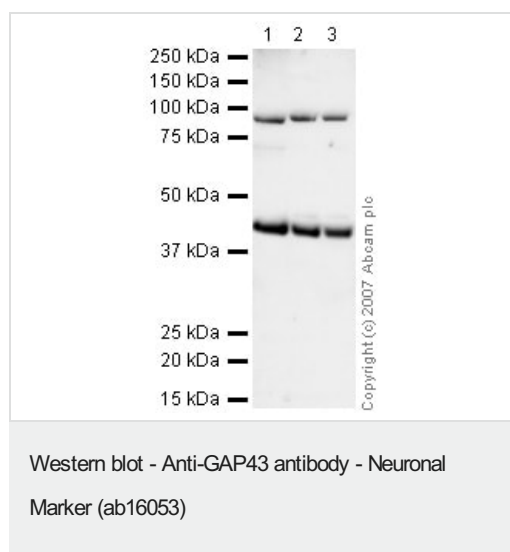| 应用说明	Is unsuitable for IHC-P.

靶标

功能	This protein is associated with nerve growth. It is a major component of the motile "growth cones" that form the tips of elongating axons.
序列相似性	Belongs to the neuromodulin family. Contains 1 IQ domain.
翻译后修饰	Phosphorylation of this protein by a protein kinase C is specifically correlated with certain forms of synaptic plasticity.
细胞定位	Cell membrane. Cell projection > growth cone membrane. Cell junction > synapse. Cytoplasmic surface of growth cone and synaptic plasma membranes.

图片

Western blot - Anti-GAP43 antibody - Neuronal Marker (ab16053)

All lanes : Anti-GAP43 antibody - Neuronal Marker (ab16053) at 1 µg/ml

Lane 1 : spinal cord chung rat 1

Lane 2 : spinal cord chung rat 2

Lane 3 : spinal cord chung rat 3

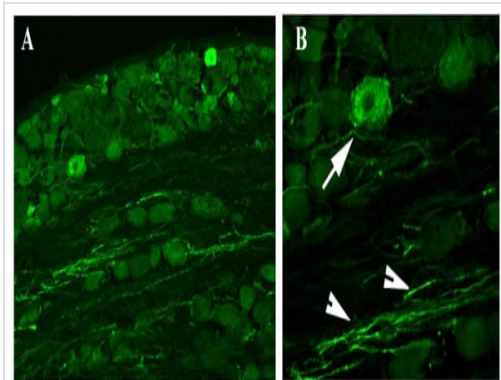Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Dako Goat polyclonal to Rabbit IgG (HRP) at 1/2000 dilution

Performed under reducing conditions.

Predicted band size: 43-53 kDa
Observed band size: 43 kDa
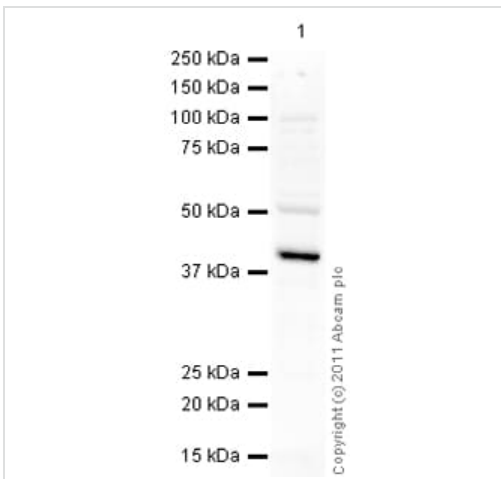**Additional bands at:** 90 kDa (possible multimer)

Immunohistochemistry (PFA fixed) - Anti-GAP43 antibody - Neuronal Marker (ab16053)

This image is courtesy of Sophie Pezet, Univ London Kings Coll, United Kingdom

Immunofluorescent staining obtained with ab16053 Rabbit polyclonal to GAP43 in rat dorsal root ganglion, 2 weeks after a spinal nerve injury. The staining is localised in the cytoplasm of some lesioned neurons (arrow in B) and in many axons (arrow heads in B). Image B (X40 objective) is a higher magnification of A (X20). The staining disappeared completely when the antibody was pre-incubated with the immunising (blocking) peptide (**ab16379**).

Protocol details: Rats were intracardially perfused with 4% paraformaldehyde, DRG tissue was post-fixed overnight in the same fixative, cryoprotected in 20% sucrose and frozen in OCT. IHC free floating was performed on the fixed, frozen and cut (20µm sections) rat tissue. Primary antibody ab16053 was incubated overnight at toom temperature at 1/300. Secondary antibody Alexa fluor 488 was incubated at 1/1000 for 2 hours at room temperature.

Western blot - Anti-GAP43 antibody - Neuronal Marker (ab16053)

Anti-GAP43 antibody - Neuronal Marker (ab16053) at 1 µg/ml + Spinal Cord (Mouse) Tissue Lysate at 10 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 43-53 kDa
Observed band size: 43 kDa
Additional bands at: 100 kDa, 50 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 8 minutes

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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