


Anti-Gliomedin antibody ab24483

[7 References](#) [2 Images](#)

Overview

Product name	Anti-Gliomedin antibody
Description	Rabbit polyclonal to Gliomedin
Host species	Rabbit
Specificity	ab24483 detects a Gliomedin sized band at 70kDa in WB.
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Mouse, Rat Predicted to work with: Human 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	This antibody gave a positive signal in the following tissue lysates: Sciatic Nerve (Rat and Mouse) IF/ICC: PC12 cell line
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p> <p>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.</p>
Purity	Immunogen affinity purified

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab24483 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

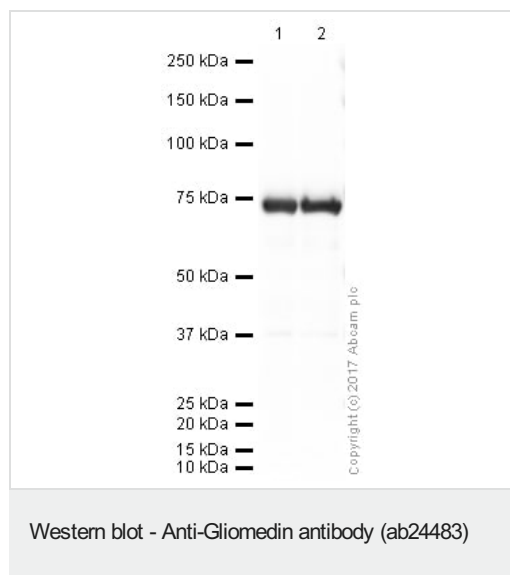
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 70 kDa (predicted molecular weight: 59 kDa).
ICC/IF		Use a concentration of 10 µg/ml.

Target

Relevance Gliomedin is a member of the collagen superfamily, it is a glial ligand for neurofascin and NrCAM, two axonal immunoglobulin cell adhesion molecules that are associated with Na⁺ channels at the nodes of Ranvier. Gliomedin provides a glial cue for the formation of peripheral nodes of Ranvier. Gliomedin is expressed by myelinating Schwann cells and accumulates at the edges of each myelin segment during development, where it aligns with the forming nodes of ranvier. Eliminating the expression of gliomedin or the addition of a soluble extracellular domain of neurofascin to myelinating cultures abolishes node formation. Gliomedin is expressed in the PNS nodes of ranvier, but not in the CNS nodes of ranvier. Gliomedin also displays high expression in murine and human hepatocellular carcinomas (HCC). Its restricted expression in normal tissues and unique early upregulation during tumor development make it an excellent candidate as a new clinical marker of HCC.

Cellular localization Cell Membrane and Cytoplasmic

Images



All lanes : Anti-Gliomedin antibody (ab24483) at 1 µg/ml

Lane 1 : Mouse Sciatic Nerve Tissue Lysate

Lane 2 : Rat Sciatic Nerve Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

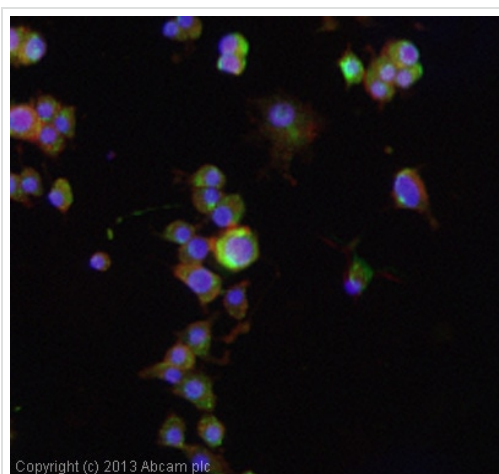
Predicted band size: 59 kDa

Observed band size: 70 kDa

Exposure time: 4 minutes

ab24483 detects a band of 70 kDa in Western Blot.

Gliomedin contains a number of N-glycosylation sites (SwissProt data) which may explain the migration at a higher molecular weight than predicted based on primary sequence.



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Immunocytochemistry/ Immunofluorescence - Anti-Gliomedin antibody (ab24483)

ICC/IF image of ab24483 stained PC12 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab24483, 10µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96899**, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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