


### Anti-NRG1 type III antibody ab23248

★★★★★ [5 Abreviews](#) [7 References](#) [画像数 2](#)

#### 製品の概要

製品名	Anti-NRG1 type III antibody
製品の詳細	Rabbit polyclonal to NRG1 type III
由来種	Rabbit
特異性	ab23248 detects ~50-55kDa band in rat sciatic nerve, rat and mouse brain lysate. IHC detection with ab23248 in mouse DRG shows a primarily nuclear localisation of the protein rather than the expected cytoplasmic staining (See Bao and Wang references).
アプリケーション	<b>適用あり:</b> IHC-Fr, WB
種交差性	<b>交差種:</b> Mouse, Rat <b>交差が予測される動物種:</b> Chicken, Human 
免疫原	Synthetic peptide corresponding to Human NRG1 type III aa 50-150 (internal sequence) conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab23378</a> )
特記事項	<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&amp;As</p>

#### 製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	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.

精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

## アプリケーション

**The Abpromise guarantee** Abpromise保証は、次のテスト済みアプリケーションにおけるab23248の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

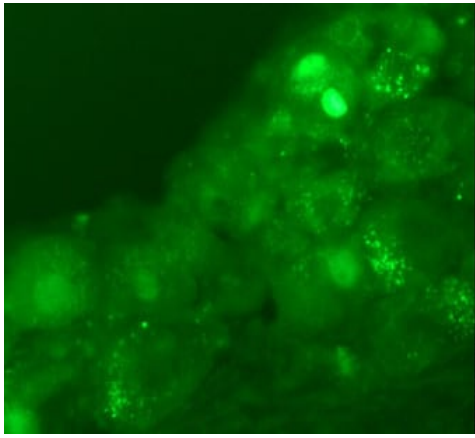
アプリケーション	Abreviews	特記事項
IHC-Fr	★★★★★ (1)	Use a concentration of 0.34 µg/ml.
WB	★★★★★ (2)	Use a concentration of 1 µg/ml. Detects a band of approximately 52 kDa.

## ターゲット情報

**関連性** NRG1 type III is a sensory and motor neuron-derived factor isoform of Neuregulin 1, specifically expressed in the nervous system: spinal cord motor neurons, dorsal root ganglion neurons, and brain. NRG1 type III is the predominant isoform expressed in sensory and motor neurons. The Nrg1 gene encodes more than 15 transmembrane and secreted protein isoforms, generated by alternative promoter usage and mRNA splicing. Nrg1 subtypes I through III share the epidermal growth factor-like signaling domain and are defined by different amino-termini. The N-terminal cysteine-rich domain (CRD), as found in the sensory and motor neuronderived factor (SMDF), defines Nrg1 type III, which in embryonic development is responsible for survival of Schwann cell precursors.

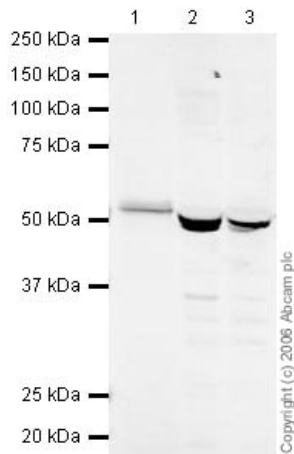
**細胞内局在** Cell Membrane and Secreted

## 画像



Immunohistochemistry (Frozen sections) - Anti-NGR1 type III antibody (ab23248)

This image is courtesy of David Bennett, Kings College London, United Kingdom



Western blot - Anti-NGR1 type III antibody (ab23248)

ab23248 detecting NRG1 Type III in mouse L4/5 dorsal root ganglion (DRG) tissue (perfused with 4% paraformaldehyde and cryoprotected overnight, cut on a cryostat at 15µm). Tissue was incubated in blocking serum (normal goat serum) for 1hr, washed 3XPBS before primary antibody incubation in PBS with triton (0.1%) overnight (ab23248 was used at 1/800 = 0.34µg/ml). Secondary antibody used was goat anti-rabbit Alexa 546 (1/1000). The image shown is taken with a X20 objective and shows mostly nuclear NRG1 Type III staining with some cytoplasmic staining (nuclear counterstain with DAPI confirmed this - not shown).

**All lanes :** Anti-NGR1 type III antibody (ab23248) at 1 µg/ml

**Lane 1 :** Mouse Sciatic Nerve Lysate

**Lane 2 :** Mouse Brain

**Lane 3 :** Brain (Rat) Tissue Lysate ([ab7942](#))

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Rabbit IgG secondary antibody ([ab28446](#)) at 1/10000 dilution

Performed under reducing conditions.

**Predicted band size:** 27,52,74,75 kDa

**Observed band size:** 52 kDa

ab23248 picks up an ~50kDa band in WB when tested on rat sciatic nerve, rat brain or mouse brain. This band size concurs with an entry for NRG1 in both Expasy and NCBI databases (Q3URY7). Carroll et al., (J Neurosci. 1997 Mar 1;17(5):1642-59) also detect a 50kDa band in dorsal root ganglion and spinal cord. However, it is surprising that we do not detect more bands; it is likely that ab23248 does not pick up all NRG1 type III isoforms or that there is very restricted expression in the tissues tested here.

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