

# Product Datasheet

## GAP-43 Antibody (5E8) - BSA Free NBP2-50052

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

### Publications: 3

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP2-50052](http://www.novusbio.com/NBP2-50052)

Updated 2/23/2025 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP2-50052](http://www.novusbio.com/reviews/destination/NBP2-50052)



**NBP2-50052**

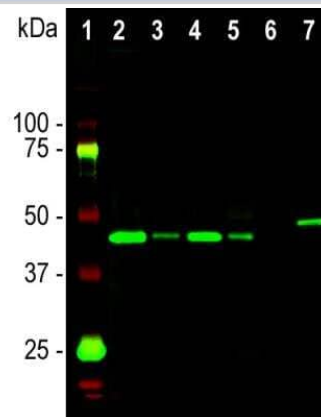
GAP-43 Antibody (5E8) - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	5E8
<b>Preservative</b>	0.035% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	50% PBS, 50% glycerol
<b>Target Molecular Weight</b>	43 kDa
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	2596
<b>Gene Symbol</b>	GAP43
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	Recombinant full length human GAP-43. [UniProt# P17677]
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:1000 - 1:5000, Immunohistochemistry 1:1000 - 1:5000, Immunocytochemistry/ Immunofluorescence 1:1000 - 1:5000

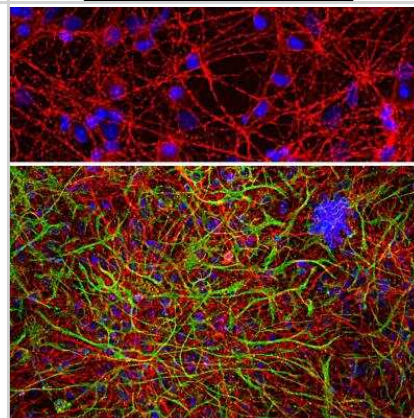


## Images

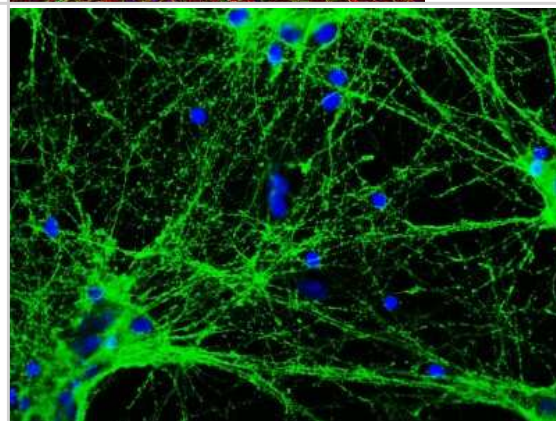
Western Blot: GAP-43 Antibody (5E8) [NBP2-50052] - Analysis of different tissue and cell lysates using mouse mAb to GAP43, NBP2-50052, dilution 1:2,000, in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] C6 cells, [7] SH-SY5Y cells. Single band at 43 kDa mark correspond to GAP43 protein. The protein is expressed in rodent and human neurons and neuronal derived cells but not in C6 cells which are of glial origin.



Immunocytochemistry/Immunofluorescence: GAP-43 Antibody (5E8) [NBP2-50052] - Analysis of cortical neuron-glia cell culture from E20 rat stained with mouse mAb to GAP43, NBP2-50052, dilution 1:1,000, in red, and costained with chicken pAb to GFAP, dilution 1:2,000, in green. The blue is DAPI staining of nuclear DNA. GAP43 antibody labels protein expressed in the axonal membrane of the neuronal cells, and GFAP antibody stains astroglia.



Immunocytochemistry/Immunofluorescence: GAP-43 Antibody (5E8) [NBP2-50052] - Mixed rat neuronal cultures stained with NBP2-50052 (green). The GAP43 antibody stains the plasma membrane of neurons and is particularly concentrated in dendrites.



## Publications

Hanuscheck N, Thalman C, Domingues M et al. Interleukin-4 receptor signaling modulates neuronal network activity The Journal of experimental medicine 2022-06-06 [PMID: 35587822] (WB, Mouse)

Demyanenko, S, Gantsgorn, E Et al. Localization and Expression of Sirtuins 1, 2, 6 and Plasticity-Related Proteins in the Recovery Period after a Photothrombotic Stroke in Mice. J Stroke Cerebrovasc Dis 2020-10-01 [PMID: 32912518] (ICC/IF, Zebrafish)

Zhang C, Cui L, He W et al. DI-3-n-butylphthalide promotes neurite outgrowth of primary cortical neurons by Sonic Hedgehog signaling via upregulating Gap43 Experimental cell research 2020-12-06 [PMID: 33296663] (ICC/IF, WB, Mouse)



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-50052**

---

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP2-53033-20ug	Recombinant Human GAP-43 His Protein

---

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP2-50052](http://www.novusbio.com/reviews/submit/NBP2-50052)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

