

# Product Datasheet

## GAP-43 Antibody - BSA Free

### NBP1-92714

Unit Size: 0.1 ml

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

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**NBP1-92714**

GAP-43 Antibody - BSA Free

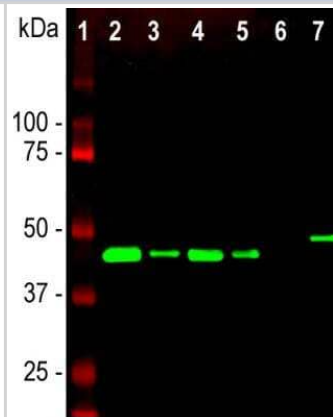
Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgY
<b>Purity</b>	IgY purified
<b>Buffer</b>	Supplied as a concentrated total IgY preparation from egg yolk, dialyzed against PBS with added preservative.
<b>Target Molecular Weight</b>	43 kDa

Product Description	
<b>Description</b>	<p>This antibody is supplied as a concentrated total IgY preparation derived from egg yolk. Production involves an initial organic extraction to remove lipids and lipoproteins, followed by salt fractionation of the aqueous phase to precipitate and enrich the IgY fraction. The material is then extensively dialyzed against PBS, and preservative is added during final formulation.</p> <p>Please note that the exact concentration of target-specific IgY cannot be determined, as the final preparation contains both antigen-specific IgY and non-immune IgY.</p>
<b>Host</b>	Chicken
<b>Gene ID</b>	2596
<b>Gene Symbol</b>	GAP43
<b>Species</b>	Human, Mouse, Rat, Porcine, Bovine, Equine
<b>Marker</b>	Neuronal Marker
<b>Immunogen</b>	C-terminal peptide of rodent GAP43, KEDPEADQEHA coupled to KLH.
<b>Notes</b>	Chicken products cannot be exported to Canada.

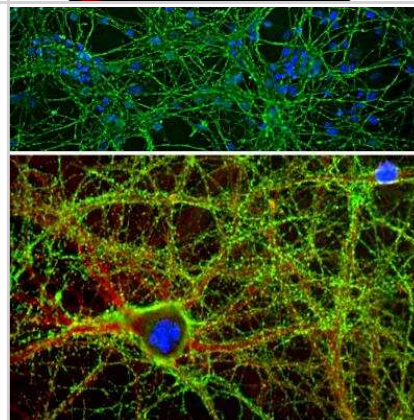
Product Application Details	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:100-1:5000, Immunohistochemistry 1:500-1:1000, Immunocytochemistry/ Immunofluorescence 1:500-1:1000
<b>Application Notes</b>	This GAP43 antibody is useful for Immunocytochemistry/Immunofluorescence and Western blot, where a band can be seen at approximately 43 kDa.

## Images

**Western Blot: GAP-43 Antibody [NBP1-92714]** - Western blot analysis of different tissue and cell lysates using chicken pAb to GAP43, NBP1-92714, dilution 1:5,000 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 the 43kDa mark corresponds to GAP43. The GAP43 protein only is detected in the lysates of neuronal origin. C6 cells are a rat glioma cell line and do not express GAP43.



**Immunocytochemistry/Immunofluorescence: GAP-43 Antibody [NBP1-92714]** - Immunofluorescent analysis of cortical neuron-glia cell culture from E20 rat stained with chicken pAb to GAP43, NBP1-92714, dilution 1:2,000 in green, and costained with rabbit pAb to alpha-II spectrin, dilution 1:1,000 in red. The blue is DAPI staining of nuclear DNA. GAP43 antibody labels protein expressed in the axonal membrane and synapses of neuronal cells, while the spectrin antibody stains the submembraneous cytoskeleton of axons and dendrites.



## Publications

Staszkiwicz R, Gralewski M, G?adysz D et al. Evaluation of the concentration of growth associated protein-43 and glial cell-derived neurotrophic factor in degenerated intervertebral discs of the lumbosacral region of the spine *Molecular pain* 2023-02-03 [PMID: 36733259] (IHC-Fr, Human)

Powers RM, Daza R, Koehler AE et al. Growth cone macropinocytosis of neurotrophin receptor and neuritogenesis are regulated by neuron navigator 1 *Molecular biology of the cell* 2022-06-01 [PMID: 35352947] (ICC/IF, Human)

Details:

Dilution used for ICC 1:250

Mo J, Anastasaki C, Chen Z et al. Humanized neurofibroma model from induced pluripotent stem cells delineates tumor pathogenesis and developmental origins *J Clin Invest* 2020-10-27 [PMID: 33108355]

Itoyama T, Yoshida S, Tomokiyo A et al. Possible function of GDNF and Schwann cells in wound healing of periodontal tissue *J. Periodont. Res.* 2020-06-20 [PMID: 32562261]



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### **Products Related to NBP1-92714**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
BAF010	Goat anti-Chicken IgY Secondary Antibody [Biotin]
NB7276	Goat anti-Chicken IgM Heavy Chain Secondary Antibody
NBP2-53033-20ug	Recombinant Human GAP-43 His Protein

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### **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.

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