Product Datasheet

GAP-43 Antibody [Biotin]
NB300-143B

Unit Size: 0.1 ml

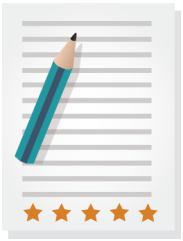
Store at 4C in the dark.

www.novusbio.com technical@novusbio.com

Publications: 5

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB300-143B

Updated 10/23/2024 v.20.1



NB300-143B

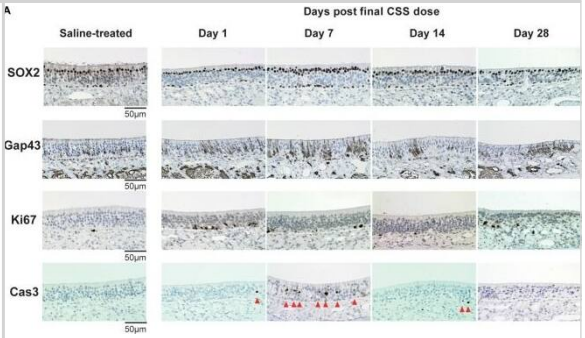
GAP-43 Antibody [Biotin]

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Conjugate	Biotin
Purity	Immunogen affinity purified
Buffer	PBS

Product Description	
Description	This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.
Host	Rabbit
Gene ID	2596
Gene Symbol	GAP43
Species	Human, Mouse, Rat, Porcine, Bovine, Canine, Chicken, Drosophila, Equine, Primate
Reactivity Notes	Reactivity to Canine, Chicken, and Primate reported in scientific literature (PMID: 30647968, 30819546, and 24249398 respectively). Drosophila reactivity reported in scientific literature (PMID: 30819546).
Marker	Neuronal Marker
Immunogen	C-terminal peptide of rodent GAP43, KEDPEADQEHA coupled to KLH.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen
Application Notes	This GAP43 antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry on paraffin-embedded and frozen sections and Western blot, where it recognizes a band at 43 kDa. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

Immunohistochemistry-Paraffin: GAP-43 Antibody [Biotin] [NB300-143B] - Representative images of hematoxylin and eosin. Differences in the number of OMP+ mature olfactory receptor neurons (ORNs). Image collected and cropped by Citeab from the following publication (Reduction of Proliferating Olfactory Cells and Low Expression of Extracellular Matrix Genes Are Hallmarks of the Aged Olfactory Mucosa. *Front Aging Neurosci* (2018)) licensed under a CC-BY license.	
Immunohistochemistry-Paraffin: GAP-43 Antibody [Biotin] [NB300-143B] - Immunohistochemistry-Paraffin: GAP-43 Antibody [Biotin] [NB300-143B] - Representative images of immunohistological staining (brown) of OMP-positive (OMP+) cells, GAP43+ immature ORNs. Tissue sections were counterstained with the nuclear dye hematoxylin (blue). Numbers of SOX2+ ORN progenitors and Ki67+ actively proliferating cells per mm of the basal layer and OMP+ mature ORNs, GAP43+ immature ORNs, and Cas3+ apoptotic cells per mm of the OE in saline or rhIGF-1-treated mice. Open circles, rectangles, and triangles represent the values for each mouse in the saline, low-IGF-1, and high-IGF-1 treated groups (each n = 6), respectively. Image collected and cropped by Citeab from the following publication (Dose-Dependent Effects of Insulin-Like Growth Factor 1 in the Aged Olfactory Epithelium. *Front Aging Neurosci* (2018)) licensed under a CC-BY license.	
Immunohistochemistry: GAP-43 Antibody [Biotin] [NB300-143B] - (A) Representative images of immunohistological staining (brown) of SOX2+ olfactory receptor neurons (ORN) progenitor cells, Gap43+ immature ORNs, Ki67+ proliferating cells & cleaved caspase-3+ (Cas3+) apoptotic cells. Tissue sections were counterstained with the nuclear dye hematoxylin (blue). Arrowheads indicate Cas3+ apoptotic cells in the OE (n = 6). (B) Numbers of SOX2+ ORN progenitors & Ki67+ actively proliferating cells per mm of the basal layer, & Gap43+ immature ORNs & Cas3+ apoptotic cells per mm of the OE in saline or CSS-treated mice. Data represent means ± SEM (n = 6). *P < 0.05; **P < 0.01; ***P < 0.001 compared with saline-treated mice (one-way ANOVA). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/29950987), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Publications

Ueha R, Ito T, Furukawa R et al. Oral SARS-CoV-2 Inoculation Causes Nasal Viral Infection Leading to Olfactory Bulb Infection: An Experimental Study Frontiers in Cellular and Infection Microbiology 2022-06-13 [PMID: 35770069]

Ueha R, Ito T, Ueha S et al. Evidence for the spread of SARS-CoV-2 and olfactory cell lineage impairment in close-contact infection Syrian hamster models Frontiers in Cellular and Infection Microbiology 2022-10-21 [PMID: 36339331]

Mori E, Ueha R, Kondo K et al. Squamous and Respiratory Metaplasia After Olfactory Mucosal Resection Frontiers in Neuroscience 2021-07-20 [PMID: 34354563] (Immunohistochemistry)

Ueha R, Shichino S, Ueha S et al. Reduction of Proliferating Olfactory Cells and Low Expression of Extracellular Matrix Genes Are Hallmarks of the Aged Olfactory Mucosa. Front Aging Neurosci 2018-03-27 [PMID: 29636678] (Mouse)

Ueha R, Ueha S, Sakamoto T et al. Cigarette Smoke Delays Regeneration of the Olfactory Epithelium in Mice. Neurotox Res 2016-08-01 [PMID: 27003941]

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 NB300-143B

NBP2-29370	Streptavidin Native Protein
NB300-143G	GAP-43 Antibody [DyLight 488]
NBP2-53033-20ug	Recombinant Human GAP-43 His Protein
DBD00	BDNF [HRP]

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

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB300-143B

Earn gift cards/discounts by submitting a publication using this product: www.novusbio.com/publications