

Product Datasheet

Carbonic Anhydrase IX/CA9 Antibody (2D3) - BSA Free NBP1-51691

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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NBP1-51691

Carbonic Anhydrase IX/CA9 Antibody (2D3) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2D3
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein A or G purified
Buffer	PBS
Target Molecular Weight	50 kDa

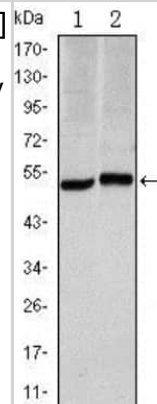
Product Description	
Description	Novus Biologicals Mouse Carbonic Anhydrase IX/CA9 Antibody (2D3) - BSA Free (NBP1-51691) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-Carbonic Anhydrase IX/CA9 Antibody: Cited in 12 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	768
Gene Symbol	CA9
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 33153038).
Marker	Hypoxia Marker
Immunogen	This Carbonic Anhydrase IX/CA9 Antibody (2D3) was made to a purified recombinant fragment of human Carbonic Anhydrase IX expressed in E. coli [UniProt# Q16790].

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, CyTOF-ready
Recommended Dilutions	Western Blot 1:2000, Flow Cytometry 1:200 - 1:400, ELISA 1:10000, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:200 - 1:1000, Flow (Intracellular) 1 ug/mL, CyTOF-ready

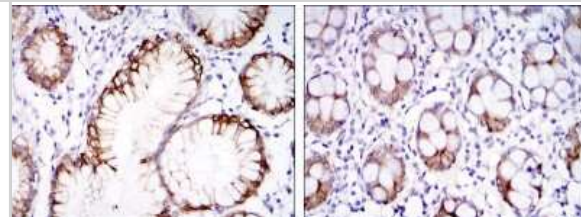


Images

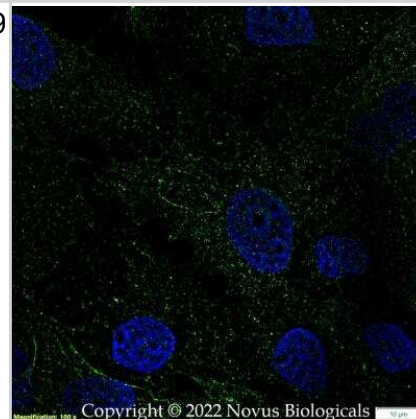
Western Blot: Carbonic Anhydrase IX/CA9 Antibody (2D3) [NBP1-51691] - Carbonic Anhydrase IX mouse antibody against Hela (1) and A549 (2) cell lysates. Bands were detected at a molecular weight of approximately 50 kDa in both cell lines.



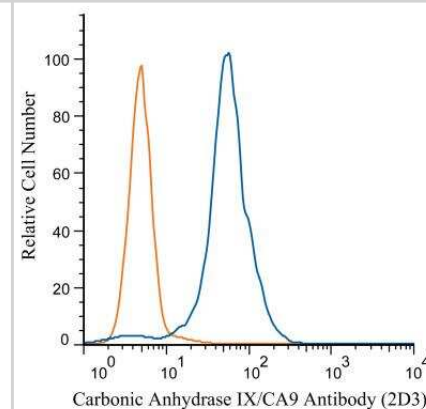
Immunohistochemistry-Paraffin: Carbonic Anhydrase IX/CA9 Antibody (2D3) [NBP1-51691] - Paraffin-embedded lung tissues (left) and colonic tissues (right) using Carbonic Anhydrase IX mouse antibody with DAB staining.



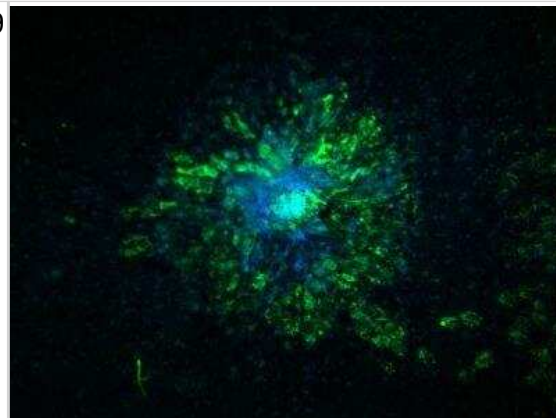
Immunocytochemistry/Immunofluorescence: Carbonic Anhydrase IX/CA9 Antibody (2D3) - BSA Free [NBP1-51691] - A431 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with Carbonic Anhydrase IX/CA9 Antibody [2D3] (NBP1-51691) at 2ug/ml overnight at 4C and detected with an anti-mouse DyLight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



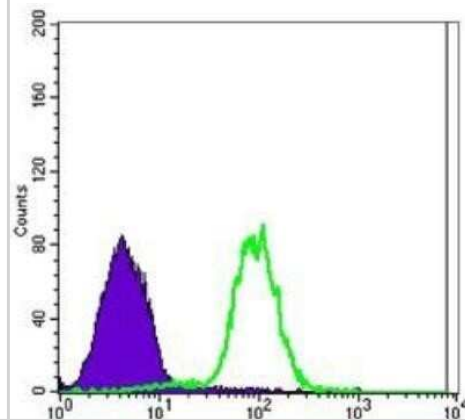
Flow Cytometry: Carbonic Anhydrase IX/CA9 Antibody (2D3) [NBP1-51691] - A surface stain was performed on A431 cells with Carbonic Anhydrase IX/CA9 NBP1-51691 (blue) and a matched isotype control NBP2-27287 (orange). Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at room temperature, followed by DyLight488-conjugated anti-mouse secondary antibody.



Immunocytochemistry/Immunofluorescence: Carbonic Anhydrase IX/CA9 Antibody (2D3) [NBP1-51691] - Mouse choroid stained with anti-Carbonic Anhydrase IX antibody. ICC/IF image submitted by a verified customer review.



Flow Cytometry: Carbonic Anhydrase IX/CA9 Antibody (2D3) [NBP1-51691] - Analysis of NTERA-2 cells using Carbonic Anhydrase IX mouse mAb (green) and negative control (purple).



Publications

Feodoroff M, Hamdan F, Antignani G et al. Enhancing T-cell recruitment in renal cell carcinoma with cytokine-armed adenoviruses *Oncoimmunology* 2024-09-25 [PMID: 39351443]

Rashidi A, Billingham LK, Zolp A, Chia TY et Al. Myeloid cell-derived creatine in the hypoxic niche promotes glioblastoma growth *Cell Metab* 2023-12-22 [PMID: 38134929]

Garbati P, Barbieri R, Calderoni M et al. Efficacy of a Three Drug-Based Therapy for Neuroblastoma in Mice *International Journal of Molecular Sciences* 2021-06-23 [PMID: 34201814]

Hu CJ, Laux A, Gandjeva A et al. The Effect of HIF Inhibition on the Phenotype of Fibroblasts in Human and Bovine Pulmonary Hypertension *American journal of respiratory cell and molecular biology* 2023-03-21 [PMID: 36944195]

Pascetta SA, Kirsh SM, Cameron M, Uniacke J Pharmacological inhibition of neuropeptide Y receptors Y1 and Y5 reduces hypoxic breast cancer migration, proliferation, and signaling *BMC cancer* 2023-06-01 [PMID: 37264315] (IHC-Fr, Human)

Aida R, Andrew Z, Leah KB, et al. Myeloid Cell-Derived Creatine in the Hypoxic Niche Promotes Glioblastoma Growth *SSRN Electronic Journal* 2022-11-06

Aida R, Andrew Z, Leah KB, et al. Myeloid Cell-Derived Creatine in the Hypoxic Niche Promotes Glioblastoma Growth *SSRN Electronic Journal* 2022-11-06

Hamdan F, YIOsmAki E, Chiaro J et al. Novel oncolytic adenovirus expressing enhanced cross-hybrid IgGA Fc PD-L1 inhibitor activates multiple immune effector populations leading to enhanced tumor killing in vitro, in vivo and with patient-derived tumor organoids *J Immunother Cancer* 2021-11-01 [PMID: 34362830] (ICC/IF, Human)

Details:

Citation using the Alexa Fluor 750 format of this antibody.

Garbati P, Barbieri R, Cangelosi D et al. MCM2 and Carbonic Anhydrase 9 Are Novel Potential Targets for Neuroblastoma Pharmacological Treatment *Biomedicines* 2020-11-03 [PMID: 33153038] (IF/IHC, Mouse)

Li Z, Jiang L, Chew SH et al. Carbonic anhydrase 9 confers resistance to ferroptosis/apoptosis in malignant mesothelioma under hypoxia *Redox Biol* 2019-08-10 [PMID: 31442913] (WB, Human)

Kelly NJ, Varga JFA, Specker EJ, Romeo CM. Hypoxia activates cadherin-22 synthesis via eIF4E2 to drive cancer cell migration, invasion and adhesion. *Oncogene*. 2018-02-01 [PMID: 28991229] (WB, Human)

Federici C, Lugini L, Marino ML et al. Lansoprazole and carbonic anhydrase IX inhibitors synergize against human melanoma cells. *J Enzyme Inhib Med Chem*. 2016-05-03 [PMID: 27142956] (WB, Human)

More publications at <http://www.novusbio.com/NBP1-51691>





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Products Related to NBP1-51691

NB800-PC1	HeLa Whole Cell Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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