

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

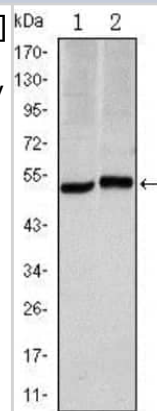
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2D3
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein A or G purified
Buffer	PBS
Target Molecular Weight	50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

Product Description	
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].

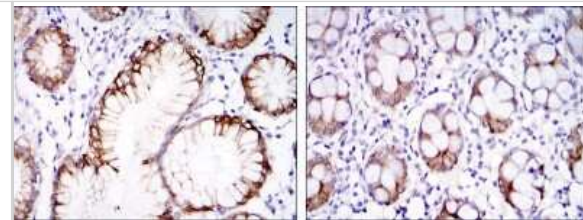
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready
Recommended Dilutions	Western Blot 1:2000, Flow Cytometry 1:200 - 1:400, ELISA 1:10000, Immunohistochemistry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

Images

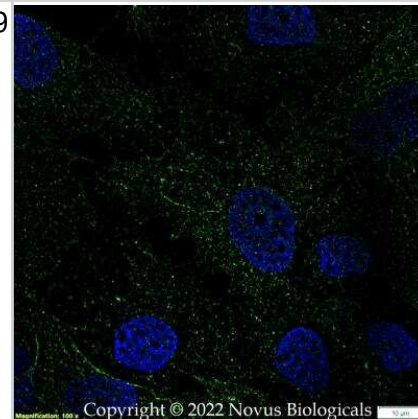
Western Blot: Carbonic Anhydrase IX/CA9 Antibody (2D3) [NBP1-51691] - Carbonic Anhydrase IX mouse antibody against Hela (1) and A549 (2) cell lysates. Bands were detected at a molecular weight of approximately 50 kDa in both cell lines.



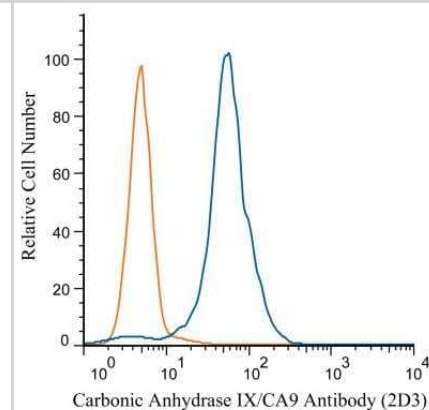
Immunohistochemistry-Paraffin: Carbonic Anhydrase IX/CA9 Antibody (2D3) [NBP1-51691] - Paraffin-embedded lung tissues (left) and colonic tissues (right) using Carbonic Anhydrase IX mouse antibody with DAB staining.



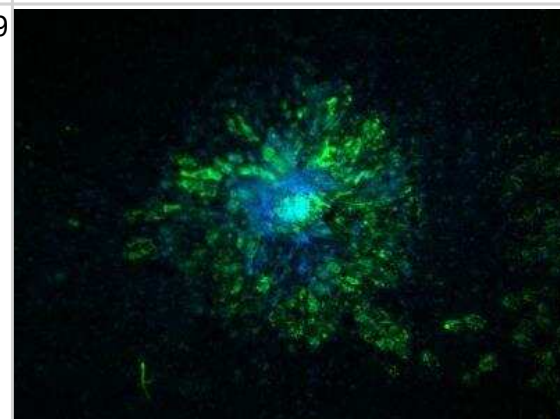
Immunocytochemistry/Immunofluorescence: Carbonic Anhydrase IX/CA9 Antibody (2D3) - BSA Free [NBP1-51691] - A431 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with Carbonic Anhydrase IX/CA9 Antibody [2D3] (NBP1-51691) 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.



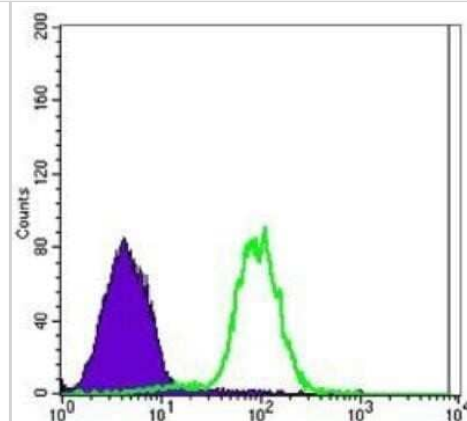
Flow Cytometry: Carbonic Anhydrase IX/CA9 Antibody (2D3) [NBP1-51691] - A surface stain was performed on A431 cells with Carbonic Anhydrase IX/CA9 NBP1-51691 (blue) and a matched isotype control NBP2-27287 (orange). Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at room temperature,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

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)

Cai C, Alshehri A, Choksi R, Pestronk A. Regional ischemic immune myopathy: a paraneoplastic dermatomyopathy. J. neuropathol. Exp. neurol. 2014-12-01 [PMID: 25383636] (IF/IHC, Human)

Persano L, Pistollato F, Rampazzo E et al. BMP2 sensitizes glioblastoma stem-like cells to Temozolomide by affecting HIF-1 alpha stability and MGMT expression Cell Death Dis 2012-10-18 [PMID: 23076220] (WB, Human)



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Products Related to NBP1-51691

NB800-PC1	HeLa Whole Cell Lysate
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)

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