

# Product Datasheet

## Carbonic Anhydrase II/CA2 Antibody - BSA Free NB600-943-100ug

Unit Size: 100 ug

Store lyophilized antibody at 4C. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.

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### Publications: 1

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**NB600-943-100ug**

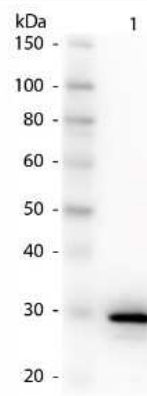
Carbonic Anhydrase II/CA2 Antibody - BSA Free

Product Information	
Unit Size	100 ug
Concentration	LYOPH mg/ml
Storage	Store lyophilized antibody at 4C. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Reconstitution Instructions	Reconstitute with 100 ul deionized water (or equivalent)
Isotype	IgG
Purity	Multi-step
Buffer	Lyophilized from 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Product Description	
Description	<p>This antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum as well as purified and partially purified Carbonic Anhydrase II [Bovine Erythrocytes]</p> <p>Store vial at 4C prior to restoration. For extended storage aliquot contents and freeze at -20C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
Host	Rabbit
Gene ID	760
Gene Symbol	CA2
Species	Human, Bovine
Reactivity Notes	Human reactivity reported in scientific literature (PMID: 9336012).
Specificity/Sensitivity	Cross reactivity against Carbonic Anhydrase II/CA2 from other tissues and species may occur but have not been specifically determined.
Immunogen	Carbonic Anhydrase II/CA2/CA2 [Bovine Erythrocytes] (Uniprot: P00921)
Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry
Recommended Dilutions	Western Blot 1:2000-1:10000, ELISA 1:20000-1:100000, Immunohistochemistry
Application Notes	This product has been tested by Western blot and immunohistochemistry. This product is suitable to be assayed against 1.0 ug of Carbonic Anhydrase II [Bovine Erythrocytes] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) and TMBE as a substrate for 30 minutes at room temperature.

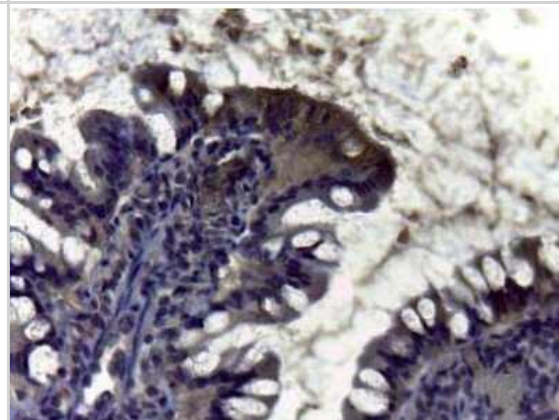


## Images

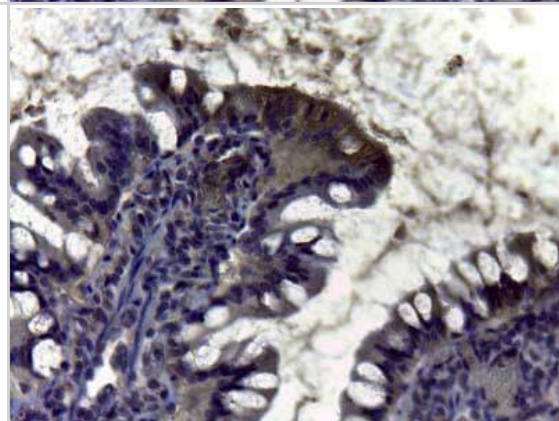
Western Blot: Carbonic Anhydrase II/CA2 Antibody [NB600-943] - Lane 1: Carbonic Anhydrase II. Lane 2: None. Load: 50 ng per lane. Primary antibody: Carbonic Anhydrase II primary antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:40,000 for 30 min at RT. Block: incubated with blocking buffer for 30 min at RT. Predicted/Observed size: 28 kDa, 28 kDa for Alkaline Phosphatase. Other band(s): None.



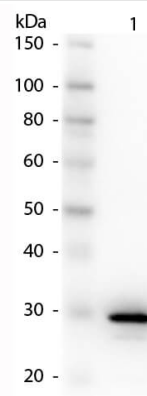
Immunohistochemistry: Carbonic Anhydrase II/CA2 Antibody [NB600-943] - Tissue: intestine Staining: diffuse positivity of enzyme Carbonic Anhydrase II in brush border of villus.



Immunohistochemistry of Carbonic Anhydrase II/CA2 Antibody Tissue: intestine Staining: diffuse positivity of enzyme Carbonic Anhydrase II in brush border of villus



Western Blot of Rabbit anti-Carbonic Anhydrase II Primary Antibody. Lane 1: Carbonic Anhydrase II. Load: 50 ng per lane. Primary antibody: Carbonic Anhydrase II primary antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody



## Publications

Mboge M, Chen Z, Wolff A et al Selective inhibition of carbonic anhydrase IX over carbonic anhydrase XII in breast cancer cells using benzene sulfonamides: Disconnect between activity and growth inhibition. PLoS One. 2018-11-19 [PMID: 30452451] (WB, Human)

Details:

Citation using the HRP version of this antibody.





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### **Products Related to NB600-943-100ug**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-52240-0.02mg	Recombinant E. coli Carbonic Anhydrase II/CA2 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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