

Product Datasheet

Carbonic Anhydrase II/CA2 Antibody [HRP] NB600-619-25ul

Unit Size: 25 ul

Store at -20C in the dark. Avoid freeze-thaw cycles.

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NB600-619-25ul**Carbonic Anhydrase II/CA2 Antibody [HRP]**

Product Information	
Unit Size	25 ul
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C in the dark. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Gentamicin Sulfate
Isotype	IgG
Conjugate	HRP
Purity	Multi-step
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Product Description	
Description	<p>This vial contains a relatively low volume of reagent (25 uL). To minimize loss of volume dilute 1:10 by adding 225 uL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20C or below after dilution. Avoid cycles of freezing and thawing.</p> <p>Carbonic anhydrase II 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-Peroxidase, anti-Rabbit Serum as well as purified and partially purified Carbonic Anhydrase II [Bovine Erythrocytes]</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)

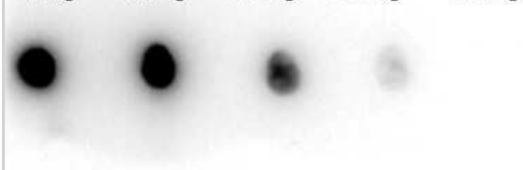
Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:1000-1:5000, ELISA 1:5000-1:20000, Immunohistochemistry 1:500-1:2500, Immunohistochemistry-Paraffin 1:10-1:500, Dot Blot
Application Notes	<p>This product has been tested by ELISA and dot blot and is assayed against 1.0 ug of Carbonic Anhydrase II [Bovine Erythrocytes] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) as a substrate for 30 minutes at room temperature. A working dilution of 1:1,000 to 1:4,000 of the reconstitution concentration is suggested for this product.</p> <p>NOTE: Do NOT add Sodium Azide (it inhibits HRP irreversibly).</p>



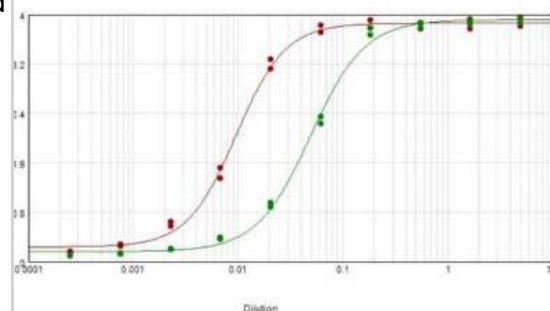
Images

Dot Blot: Carbonic Anhydrase II/CA2 Antibody [HRP] [NB600-619] - Dot Blot of Rabbit Carbonic Anhydrase II/CA2/CA2 antibody [HRP]. Lane 1: 100ng. Lane 2: 33.3ng. Lane 3: 11.1ng. Lane 4: 3.7ng. Lane 5: 1.23ng. Secondary Antibody: 200-4357 Anti-Carbonic Anhydrase II/CA2 HRP 1ug/mL. Blocking Buffer for 30 min at RT.

100ng 33.3ng 11.1ng 3.70ng 1.23ng

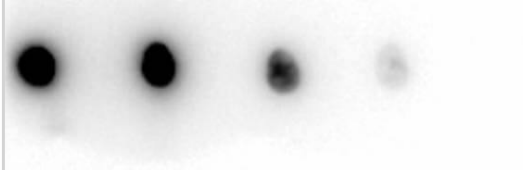


ELISA: Carbonic Anhydrase II/CA2 Antibody [HRP] [NB600-619] - ELISA results of purified Carbonic Anhydrase II/CA2/CA2 antibody [HRP] tested against Carbonic Anhydrase II/CA2 (erythrocytes). (Green line) The starting dilution of antibody was 5ug/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using TMB substrate.



Dot Blot of Rabbit Anti-Carbonic Anhydrase II Peroxidase Conjugated Antibody. Lane 1: 100ng. Lane 2: 33.3ng. Lane 3: 11.1ng. Lane 4: 3.7ng. Lane 5: 1.23ng. Secondary Antibody: 200-4357 Anti-Carbonic Anhydrase II HRP 1ug/mL. Blocking Buffer: for 30 min at RT.

100ng 33.3ng 11.1ng 3.70ng 1.23ng



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.



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 NB600-619-25ul

NBP2-24891H	Rabbit IgG Isotype Control [HRP]
NBP2-52240-0.02mg	Recombinant E. coli Carbonic Anhydrase II/CA2 His Protein
233-FB-025	FGF basic/FGF2/bFGF [Unconjugated]
2184-CA-050	Carbonic Anhydrase II/CA2

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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