

# Product Datasheet

## Carbonic Anhydrase I/CA1 Antibody - BSA Free NBP1-88191

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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**NBP1-88191**

Carbonic Anhydrase I/CA1 Antibody - BSA Free

**Product Information**

<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol

**Product Description**

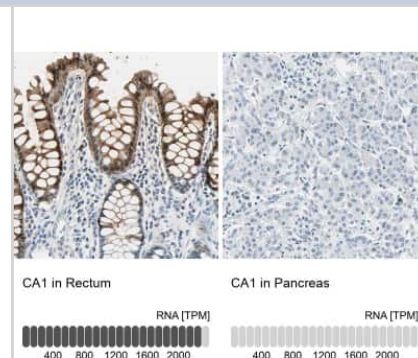
<b>Description</b>	Novus Biologicals Rabbit Carbonic Anhydrase I/CA1 Antibody - BSA Free (NBP1-88191) is a polyclonal antibody validated for use in IHC and WB. Anti-Carbonic Anhydrase I/CA1 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	759
<b>Gene Symbol</b>	CA1
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Use in Mouse reported in scientific literature (PMID:31453805). Rat (83%).
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: NGPEQWSKLYPIANGNNQSPVDIKTSETKHDTSLKPISVSYNPATAKEIINVGHSHFVNFEEDNDNRSVLKGGPFSDSYRLFQFHFHWGSTNEHGSSEHTVDGVKYSAE LHVAHWNSAKYSSLAEEAASKADGLAVIGVLMK

**Product Application Details**

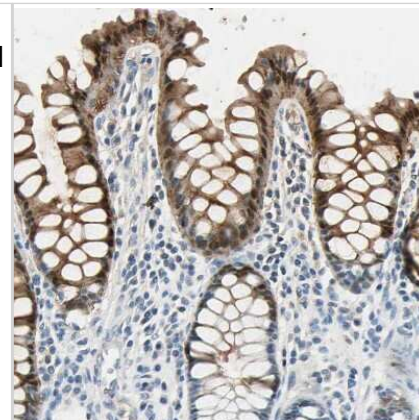
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunohistochemistry-Paraffin 1:500 - 1:1000
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

**Images**

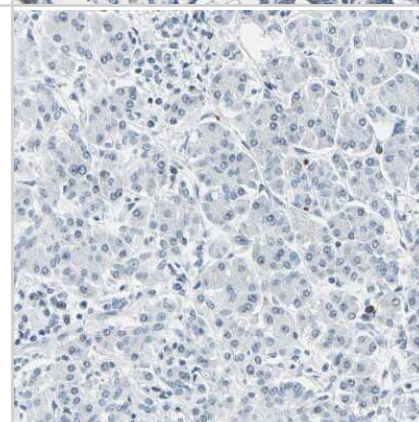
Immunohistochemistry-Paraffin: Carbonic Anhydrase I/CA1 Antibody [NBP1-88191] - Analysis in human rectum and pancreas tissues. Corresponding CA1 RNA-seq data are presented for the same tissues.



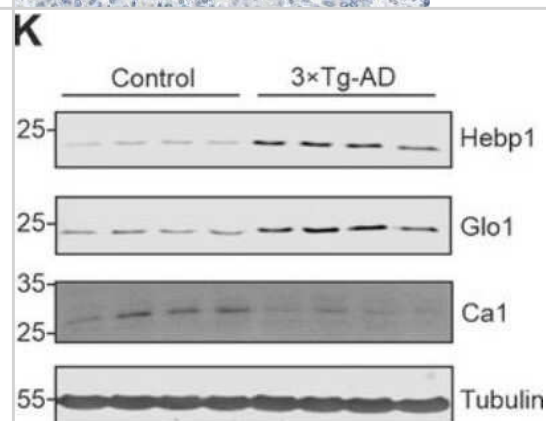
Immunohistochemistry-Paraffin: Carbonic Anhydrase I/CA1 Antibody [NBP1-88191] - Staining of human rectum shows strong cytoplasmic and nuclear positivity in glandular cells.



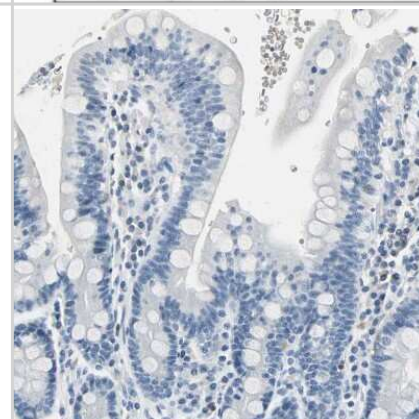
Immunohistochemistry-Paraffin: Carbonic Anhydrase I/CA1 Antibody [NBP1-88191] - Staining of human pancreas shows no positivity in exocrine glandular cells as expected.



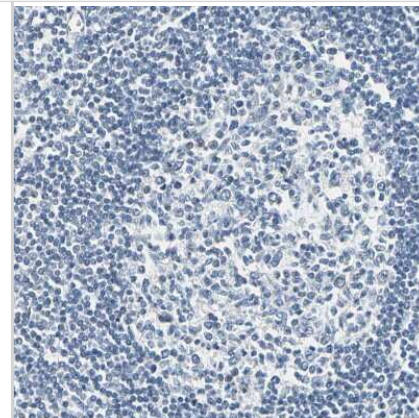
Carbonic-Anhydrase-I-CA1-Antibody-Western-Blot-NBP1-88191-img0015.jpg



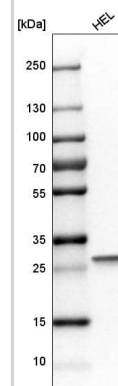
Immunohistochemistry-Paraffin: Carbonic Anhydrase I/CA1 Antibody [NBP1-88191] - Staining of human duodenum shows no positivity in glandular cells as expected.



Immunohistochemistry-Paraffin: Carbonic Anhydrase I/CA1 Antibody [NBP1-88191] - Staining of human lymphoid tissues shows no positivity in non-germinal or germinal center cells as expected.



Analysis in human cell line HEL.



## Publications

Toyonaga T, Steinbach EC, Keith BP et al. Decreased Colonic Activin Receptor-Like Kinase 1 Disrupts Epithelial Barrier Integrity in Patients with Crohn's disease Cell Mol Gastroenterol Hepatol 2020-06-16 [PMID: 32561494]

Yagensky O, Kohansal-Nodehi M, Gunaseelan S et al. Increased expression of heme-binding protein 1 early in Alzheimer's disease is linked to neurotoxicity Elife 2019-08-27 [PMID: 31453805] (WB, Rat, Mouse, Human)

Yagensky O. Identifying stage-specific markers of Alzheimer's disease using quantitative proteomics.. Thesis 1905-07-10 (WB, Mouse)



### **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 NBP1-88191**

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NBP1-88191PEP	Carbonic Anhydrase I/CA1 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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