

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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Publications: 3

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NBP1-88191

Carbonic Anhydrase I/CA1 Antibody - BSA Free

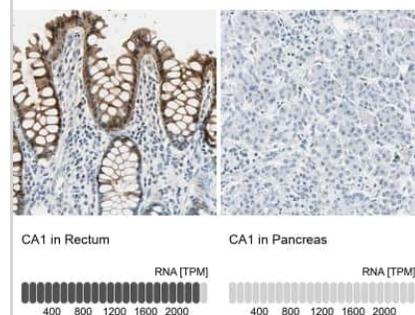
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

Product Description	
Host	Rabbit
Gene ID	759
Gene Symbol	CA1
Species	Human, Mouse
Reactivity Notes	Use in Mouse reported in scientific literature (PMID:31453805). Rat (83%).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: NGPEQWSKLYPIANGNNQSPVDIKTSETKHDTSLKPISVSYNPATAKEIINVGH FHVNFEDNDNRSVLKGGPFSDSYRLFQFHFHWGSTNEHGSEHTVDGKYSAE LHVAHWNSAKYSSLAEAAASKADGLAVIGVLMK

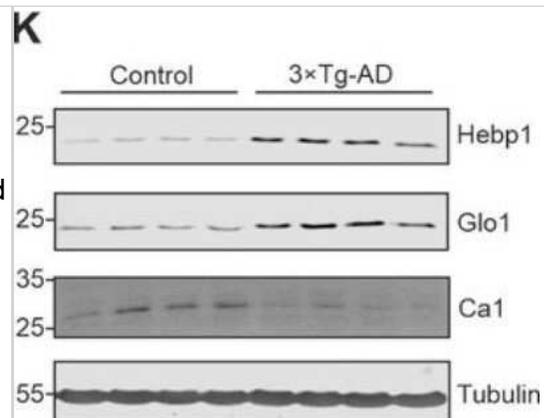
Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunohistochemistry-Paraffin 1:500 - 1:1000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

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.



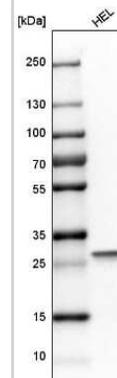
Western Blot: Carbonic Anhydrase I/CA1 Antibody [NBP1-88191] - Comparative proteome analysis of 3xTg-AD and control samples at different stages of AD. Immunoblot analysis of most regulated hits. Soluble fractions of brain proteins were analyzed from four 2-month-old control and 3xTg-AD mice animals, respectively. Hebp1 and Glo1 levels were consistently elevated in the transgenic animals as compared to wild type controls. Ca1 levels were reduced in transgenic animals. Image collected and cropped by CiteAb from the following publication (<https://elifesciences.org/articles/47498>), licensed under a CC-BY license.



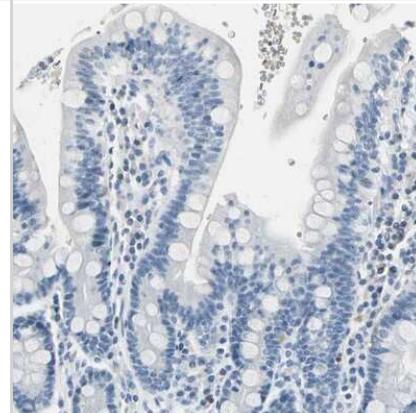
Immunohistochemistry-Paraffin: Carbonic Anhydrase I/CA1 Antibody [NBP1-88191] - Staining of human rectum shows strong cytoplasmic and nuclear positivity in glandular cells.



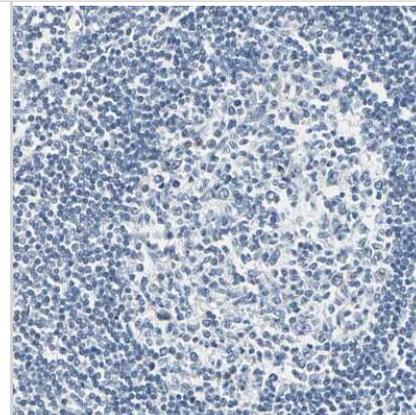
Western Blot: Carbonic Anhydrase I/CA1 Antibody [NBP1-88191] - Analysis in human cell line HELA.



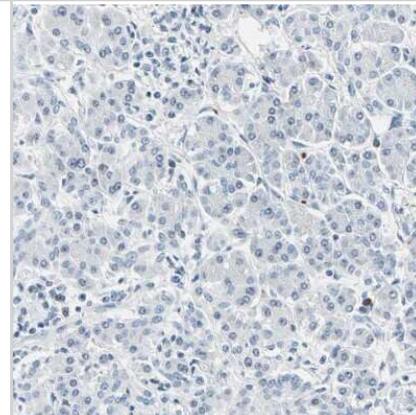
Immunohistochemistry-Paraffin: Carbonic Anhydrase I/CA1 Antibody [NBP1-88191] - Staining of human duodenum shows no positivity in glandular cells as expected.



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.



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



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)



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Products Related to NBP1-88191

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

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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