

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

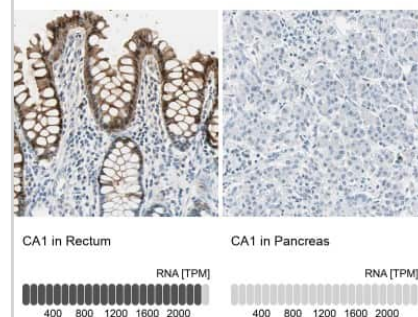
| Product Information | |
|---------------------|--|
| Unit Size | 0.1 ml |
| Concentration | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| 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 SFHVNFEEDNDNRSVLKGGPFSDSYRLFQFHFHWGSTNEHGSEHTVDGVKYS AE LHVHWNLSAKYSSLAEEAASKADGLAVIGVLMK |

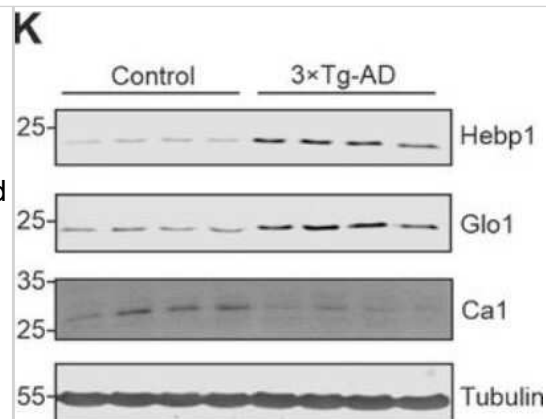
| Product Application Details | |
|-----------------------------|--|
| Applications | Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin |
| Recommended Dilutions | Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunohistochemistry-Paraffin 1:500 - 1:1000 |
| Application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

Images

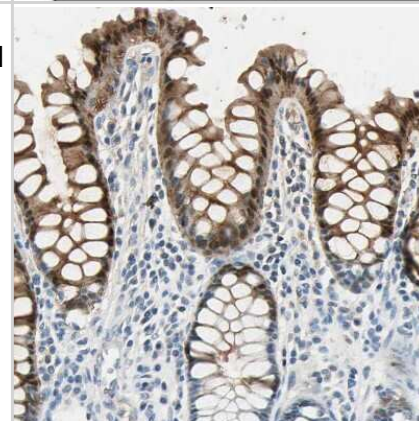
Immunohistochemistry-Paraffin: Carbonic Anhydrase I/CA1 Antibody [NBP1-88191] - Analysis in human rectum and pancreas tissues. Corresponding CA1 RNA-seq data are presented for the same tissues.



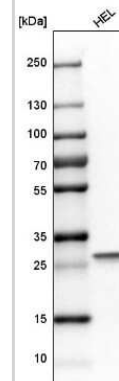
Western Blot: Carbonic Anhydrase I/CA1 Antibody [NBP1-88191] - Comparative proteome analysis of 3xTg-AD and control samples at different stages of AD. Immunoblot analysis of most regulated hits. Soluble fractions of brain proteins were analyzed from four 2-month-old control and 3xTg-AD mice animals, 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.



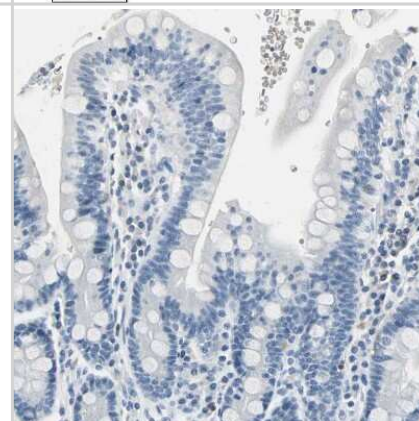
Immunohistochemistry-Paraffin: Carbonic Anhydrase I/CA1 Antibody [NBP1-88191] - Staining of human rectum shows strong cytoplasmic and nuclear positivity in glandular cells.



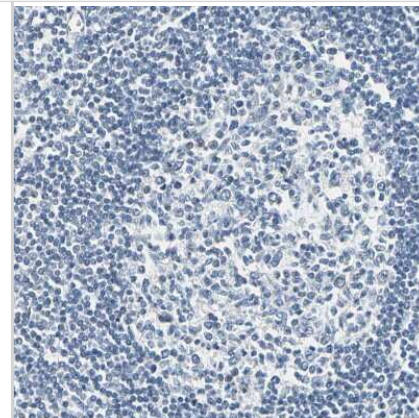
Western Blot: Carbonic Anhydrase I/CA1 Antibody [NBP1-88191] - Analysis in human cell line HELA.



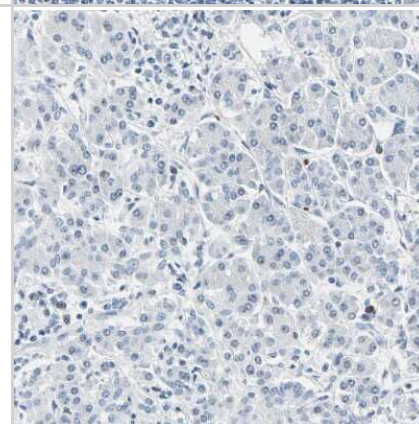
Immunohistochemistry-Paraffin: Carbonic Anhydrase I/CA1 Antibody [NBP1-88191] - Staining of human duodenum shows no positivity in glandular cells as expected.



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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