

For Research Use Only

ASIC 1 Polyclonal antibody

Catalog Number: 27235-1-AP

Featured Product

10 Publications



Basic Information

Catalog Number:

27235-1-AP

Size:

150ul, Concentration: 900 µg/ml by Nanodrop and 500 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25941

GenBank Accession Number:

NM_001095

GeneID (NCBI):

41

UNIPROT ID:

P78348

Full Name:

amiloride-sensitive cation channel 2, neuronal

Calculated MW:

60 kDa

Observed MW:

60-70 kDa, 80-90 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IF, FC, IHC, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse brain tissue, mouse cerebellum tissue, rat brain tissue

IP: mouse brain tissue,

IHC: human pancreas cancer tissue, mouse brain tissue

Background Information

ASIC1 (Acid-sensing ion channel 1), also named as ACCN2, BNaC2 or amiloride-sensitive cation channel 2, is a member of the ASICs family. ASICs, an H⁺-gated subgroup of the epithelial Na⁺ channel/ degenerin (ENaC/DEG) superfamily, are widely expressed throughout the central and peripheral nervous system and triggered by increased extracellular acidification (PMID: 28518134, 27941930). ASIC1 is a key player in acidosis-induced tumor growth and invasiveness. Clinically, alterations of ASIC1 are associated with poor survival in breast cancer (PMID: 26686084).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-------------|-----------|-----------------|-------------|
| Yangyang Li | 36162458 | Eur J Pharmacol | WB,IHC |
| Na Du | 36155179 | Life Sci | WB,IHC,IF |
| Wei Wang | 35894166 | Endocrinology | WB |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

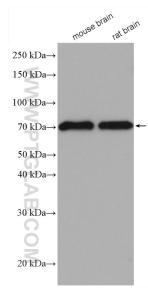
For technical support and original validation data for this product please contact:

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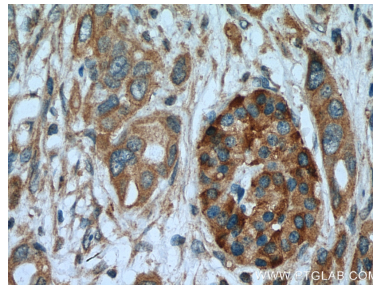
E: proteintech@ptglab.com
W: ptglab.com

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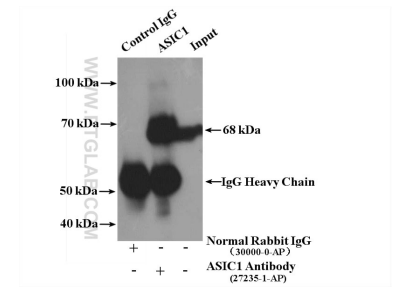
Selected Validation Data



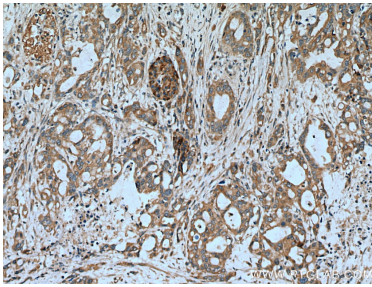
Various lysates were subjected to SDS PAGE followed by western blot with 27235-1-AP (ASIC1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 27235-1-AP (ASIC1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ASIC1 (IP:27235-1-AP, 4ug; Detection:27235-1-AP 1:300) with mouse brain tissue lysate 3000ug.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 27235-1-AP (ASIC1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).