




## Product datasheet

# Anti-ASIC1 antibody - C-terminal ab205387

1 Image

### Overview

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<b>Product name</b>	Anti-ASIC1 antibody - C-terminal
<b>Description</b>	Goat polyclonal to ASIC1 - C-terminal
<b>Host species</b>	Goat
<b>Specificity</b>	ab205387 is expected to recognize all reported isoforms (NP_064423.2; NP_001086.2; NP_001243759.1).
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Chicken 
<b>Immunogen</b>	Synthetic peptide corresponding to Human ASIC1 aa 500 to the C-terminus (C terminal) (Cysteine residue). Database link: <a href="#">P78348</a>  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	WB: Mouse fetal brain lysate.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab205387 was purified from goat serum by ammonium sulphate precipitation followed by antigen

affinity chromatography using the immunizing peptide.

**Clonality** Polyclonal  
**Isotype** IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab205387 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.3 - 1 µg/ml. Detects a band of approximately 70 kDa (predicted molecular weight: 60 kDa). 1 hour primary incubation is recommended for this product.
IHC-P		Use a concentration of 5 µg/ml.

## Target

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**Function** Cation channel with high affinity for sodium, which is gated by extracellular protons and inhibited by the diuretic amiloride. Also permeable for Ca(2+), Li(+) and K(+). Generates a biphasic current with a fast inactivating and a slow sustained phase. Mediates glutamate-independent Ca(2+) entry into neurons upon acidosis. This Ca(2+) overloading is toxic for cortical neurons and may be in part responsible for ischemic brain injury. Heteromeric channel assembly seems to modulate channel properties. Functions as a postsynaptic proton receptor that influences intracellular Ca(2+) concentration and calmodulin-dependent protein kinase II phosphorylation and thereby the density of dendritic spines. Modulates activity in the circuits underlying innate fear.

**Tissue specificity** Expressed in most or all neurons.

**Sequence similarities** Belongs to the amiloride-sensitive sodium channel (TC 1.A.6) family. ACCN2 subfamily.

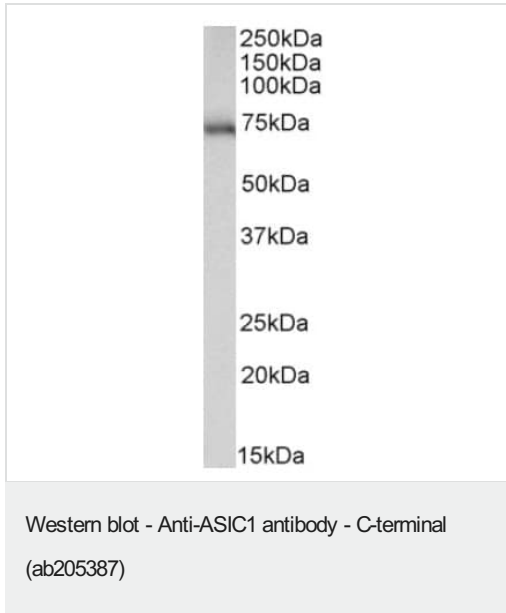
**Post-translational modifications** Phosphorylation by PKA regulates interaction with PRKCABP and subcellular location. Phosphorylation by PKC may regulate the channel.

**Cellular localization** Cell membrane. Localizes in synaptosomes at dendritic synapses of neurons. Colocalizes with DLG4.

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## Images

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Anti-ASIC1 antibody - C-terminal (ab205387) at 0.3 µg/ml + Mouse fetal brain lysate at 35 µg

Developed using the ECL technique.

**Predicted band size:** 60 kDa

**Observed band size:** 70 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

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