

## Product datasheet for **TA355727**

### Asic1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	<b>Expected reactivity:</b> Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat <b>Homology:</b> Cow: 93%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	60kDa
Gene Name:	acid-sensing (proton-gated) ion channel 1
Database Link:	<a href="#">NP_033727</a> <a href="#">Entrez Gene 11419 Mouse</a> <a href="#">Q6NXX8</a>



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**Background:**

Accn2 is a cation channel with high affinity for sodium, which is gated by extracellular protons and inhibited by the diuretic amiloride. It also permeable for Ca<sup>2+</sup>, Li<sup>+</sup> and K<sup>+</sup>. It generates a biphasic current with a fast inactivating and a slow sustained phase and mediates glutamate-independent Ca<sup>2+</sup> entry into neurons upon acidosis. This Ca<sup>2+</sup> overloading is toxic for cortical neurons and may be in part responsible for ischemic brain injury. Heteromeric channel assembly seems to modulate channel properties. Accn2 functions as a postsynaptic proton receptor that influences intracellular Ca<sup>2+</sup> concentration and calmodulin-dependent protein kinase II phosphorylation and thereby the density of dendritic spines. It modulates activity in the circuits underlying innate fear.

**Synonyms:**

Accn2; AI843610; ASIC; ASIC1a; B530003N02Rik; BNaC2

**Product images:**

WB Suggested Anti-Accn2 Antibody  
Titration: 1.0 ug/ml  
Positive Control: Mouse Heart