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Product datasheet for AP20673PU-M

SCN2A Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	**Immunohistochemistry on Paraffin Sections:** 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of Na^+ CP type II-alpha protein. (region surrounding Lys1032)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	sodium voltage-gated channel alpha subunit 2
Database Link:	Entrez Gene 24766 RatEntrez Gene 110876 MouseEntrez Gene 6326 Human Q99250

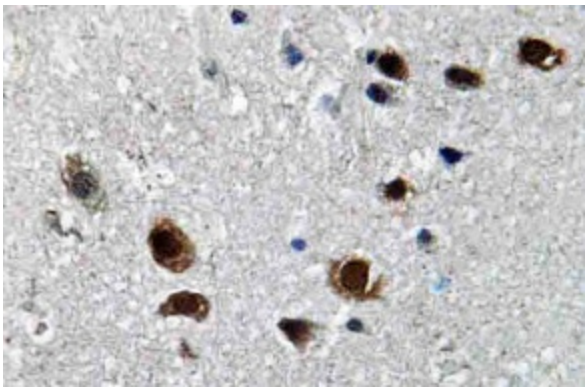
View online »

Background: Voltage-gated sodium channels are selective ion channels that regulate the permeability of sodium ions in excitable cells. During the propagation of an action potential, sodium channels allow an influx of sodium ions, which rapidly depolarize the cell. The three glycoproteins that comprise the voltagegated sodium channel proteins include a pore-forming alpha subunit, a noncovalently associated beta1 subunit and a disulfidelinked beta2 subunit. The two beta subunits regulate the level of channel expression, modulate gating and function as cell adhesion molecules for cellular aggregation and cytoskeleton interaction. The alpha subunits of sodium channels type I and III are predominantly expressed in neuronal cell bodies and proximal processes, while type IIalpha subunits are more abundant along axons. The beta1 subunit of sodium channel type I is expressed in brain, skeletal and cardiac muscle. In the brain, beta1 and beta2 are highly expressed in Purkinje cells, and beta1 is also expressed in the pyramidal cells of the deep cerebellar nuclei. Impaired voltage-gated sodium channels lead to a number of diseases including myotonia.

Synonyms: NAC2, SCN2A1, SCN2A2, HBSC II

Protein Families: Druggable Genome, Ion Channels: Sodium, Transmembrane

Product images:



Immunohistochemistry analysis of SCN2A Antibody (Cat.-No [AP20673PU-N]) in paraffin-embedded human brain tissue.