

Product datasheet for **TA329045**

Scnn1a Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)EELDRITEQTLFD, corresponding to amino acid residues 173-185 of rat ENaCa. Extracellular loop.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.025% NaN ₃ .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	sodium channel epithelial 1 alpha subunit
Database Link:	NP_113736 Entrez Gene 6337 Human Entrez Gene 20276 Mouse Entrez Gene 25122 Rat P37089



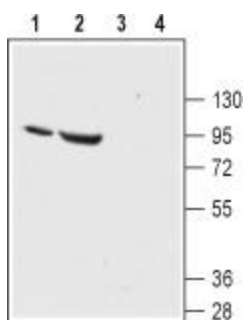
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Background:

The DEG/ENaC family consists of Na⁺ selective channels. They are characterized by 2 transmembrane domains with a large extracellular loop, important for channel activity and intracellular N-and C-termini which are important for channel gating and for interacting with regulatory proteins respectively. ENaC is localized to the apical side of polarized epithelial cells like those in the kidney, lung, and distal colon and is responsible for maintaining proper Na⁺ balance. This channel is formed by oligomerization of three subunits, α , β , and γ usually with the $\alpha 2\beta 1\gamma 1$ combination. In addition, the α subunit which is essential for channel activity undergoes phosphorylation in its C-terminal by SGK1 (serum and glucocorticoid-induced kinase 1) which is known to activate the channel at the plasma membrane. Pseudohypoaldosteronism type 1 (PHA-1) has an early onset and is depicted by severe dehydration, hyponatremia and hyperkalemia. One form of the pathology is characterized by mutations in α , β , and γ subunits. The severity of the diseases depends on the loss of activity of the channel.

Synonyms:

Alpha-ENaC; Alpha-NaCH; BESC2; ENaCa; ENaCalpha; FLJ21883; SCNEA; SCNN1

Product images:

Western blot analysis of rat (lanes 1 and 3) and mouse (lanes 2 and 4) kidney lysate: 1, 2. Anti-ENaCa (extracellular) antibody, (1:200). 3, 4. Anti-ENaCa (extracellular) antibody, preincubated with the control peptide antigen.