

**DATASHEET**

**Beta-NaCH (Phospho-T615) Rabbit Polyclonal Antibody**

CAT. NO. APA11053

**KEY FEATURES**

|               |   |               |                     |
|---------------|---|---------------|---------------------|
| Target        | Beta-NaCH (Phospho-T615)  | Source / Host | Rabbit              |
| Reactivity    | Human, Mouse, Rat, Bovine, Dog, Sheep   | Clonality     | Polyclonal          |
| Applications  | WB, IHC, IF/ICC   | Conjugation   | Unconjugated        |
| Form / Buffer | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |               | Storage<br>at -20°C |

**BACKGROUND**

This is one of the three pore-forming subunits of the heterotrimeric epithelial sodium channel (ENaC), a critical regulator of sodium balance and fluid homeostasis, a critical regulator of sodium balance and fluid homeostasis. ENaC operates in epithelial tissues, where it mediates the electrodiffusion of sodium ions from extracellular fluid through the apical membrane of cells, with water following osmotically. It plays a key role in maintaining sodium homeostasis through electrogenic sodium reabsorption in the kidneys. Additionally, ENaC is essential for airway surface liquid homeostasis, which is crucial for proper mucus clearance.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

|        |                |
|--------|----------------|
| WB     | 1:500 - 1:1000 |
| IHC    | 1:50 - 1:200   |
| IF/ICC | 1:100 - 1:500  |

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

|                   |  |
|-------------------|--|
| Description       | Rabbit polyclonal antibody to Beta-NaCH (Phospho-T615)   |
| Specificity       | Recognizes endogenous levels of Beta-NaCH protein only when phosphorylated at T615.  |
| Antibody Type     | Primary antibody   |
| Immunogen         | KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding T615 of human Beta-NaCH protein. The exact sequence is proprietary.                          |
| Purification      | The antibody was purified by immunogen affinity chromatography.  |
| Molecular Weight  | Predicted: 72 kD; Observed: 73 kD  |
| Form/Buffer       | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.  |
| Alternative Names | Amiloride-sensitive sodium channel subunit beta; Beta-NaCH; Epithelial Na(+) channel subunit beta; Beta-ENaC; ENaCB; Nonvoltage-gated sodium channel 1 subunit beta; SCNEB |
| Gene Symbol       | SCNN1B   |
| Entrez Gene       | 6338(Human); 20277(Mouse); 24767(Rat)  |
| SwissProt         | P51168(Human); Q9WU38(Mouse); P37090(Rat)  |

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

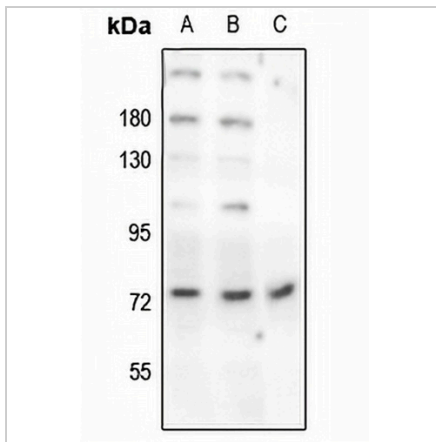
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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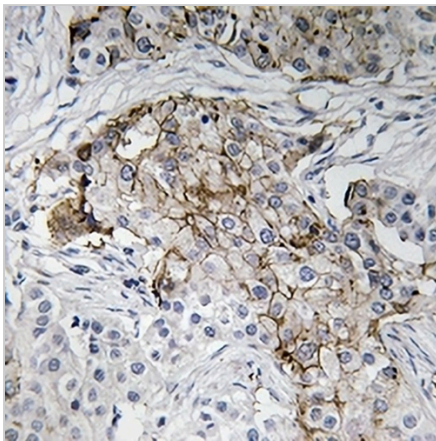
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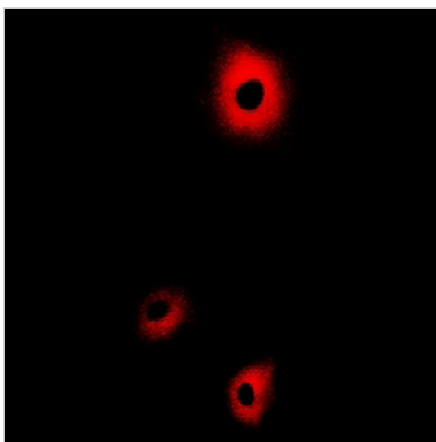
**DATA**



Western blot analysis of Beta-NaCH (Phospho-T615) expression in SGC7901 (A), A549 (B), rat lung (C) whole cell lysates. (Predicted band size: 72 kD; Observed band size: 73 kD)



Immunohistochemical analysis of Beta-NaCH (Phospho-T615) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Beta-NaCH (Phospho-T615) staining in COS7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.