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Anti-Beta-NaCH (pT615) Antibody

Rabbit polyclonal antibody to Beta-NaCH (pT615)
Catalog # AP61171

Specification

Anti-Beta-NaCH (pT615) Antibody - Product Information

Application	**WB, IF/IC, IHC**
Primary Accession	P51168
Other Accession	Q9WU38
Reactivity	**Human, Mouse, Rat, Bovine, SARS, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**72659**

Anti-Beta-NaCH (pT615) Antibody - Additional Information

Gene ID 6338

Other 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

Target/Specificity
Recognizes endogenous levels of Beta-NaCH (pT615) protein.

Dilution
WB~~WB (1/500 - 1/1000), IH (1/50 - 1/200), IF/IC (1/100 - 1/500)
IF/IC~~N/A
IHC~~1:100~500

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-Beta-NaCH (pT615) Antibody - Protein Information

Name SCNN1B {ECO:0000303|PubMed:7490094, ECO:0000312|HGNC:HGNC:10600}

Function
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 (PubMed:30251954, PubMed:32729833, PubMed:7762608, PubMed:9792722). 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 (PubMed:24124190). It plays a key role in maintaining sodium homeostasis through electrogenic sodium reabsorption in the kidneys (PubMed:12107247). Additionally, ENaC is essential for airway surface liquid homeostasis, which is crucial for proper mucus clearance (PubMed:24124190).

Cellular Location
Apical cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:P37090}; Multi-pass membrane protein

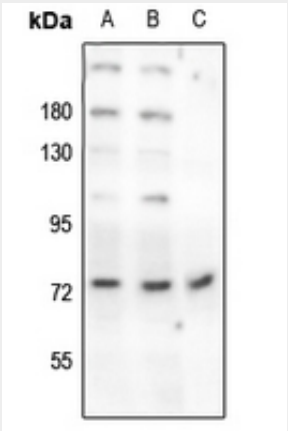
Tissue Location
Detected in placenta, lung and kidney (PubMed:7762608). Expressed in kidney (at protein level) (PubMed:22207244).

Anti-Beta-NaCH (pT615) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Beta-NaCH (pT615) Antibody - Images



Western blot analysis of Beta-NaCH (pT615) expression in SGC7901 (A), A549 (B), rat lung (C) whole cell lysates.

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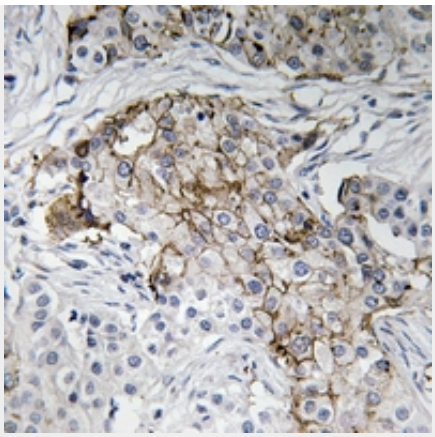
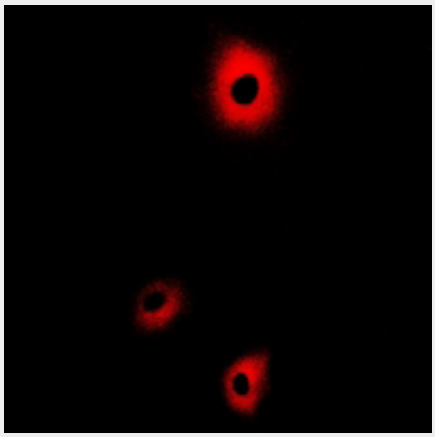


Immunohistochemical analysis of Beta-NaCH (pT615) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature 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 (pT615) 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 hidified 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.

Anti-Beta-NaCH (pT615) Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Beta-NaCH (pT615). The exact sequence is proprietary.