SCN7A polyclonal antibody

Catalog: BS31051 Host: Rabbit Reactivity: Human, Mouse, Rat

BackGround:

Sodium channel protein type 7 subunit alpha: Sodium leak channel functioning as an osmosensor regulating sodium ion levels in various tissues and organs. While most sodium channels are voltage-gated, SCN7A is not and lets sodium flow through membrane along its concentration gradient . In glial cells of the central nervous system, senses body-fluid sodium levels and controls salt intake behavior as well as voluntary water intake through activation of nearby neurons to maintain appropriate sodium levels in the body (By similarity). By mediating sodium influx into keratinocytes, also plays a role in skin barrier homeostasis

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~193 kDa

Swiss-Prot:

Q01118

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IF/ICC (1/100 - 1/500)

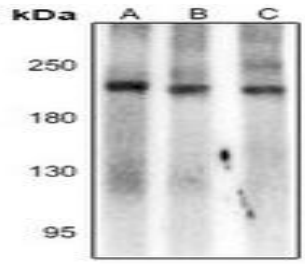
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

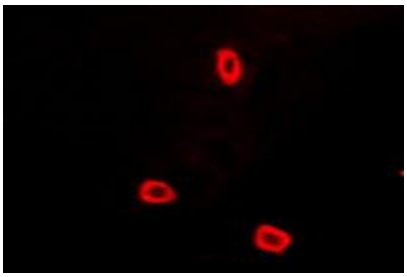
Recognizes endogenous levels of SCN7A protein.

DATA:



Western blot analysis of AKAP8 expression in HepG2 (A), Jurkat (B), mouse kidney (C), rat kidney (D) whole cell lysates.

Immunohistochemical analysis of AKAP8 staining in human heart 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 AKAP8 staining in Jurkat 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 ℃ in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Note:

For research use only, not for use in diagnostic procedure.

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