



SLC13A5 polyclonal antibody

Catalog: BS33390

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Na(+)/citrate cotransporter: High-affinity sodium/citrate cotransporter that mediates the entry of citrate into cells, which is a critical participant of biochemical pathways . May function in various metabolic processes in which citrate has a critical role such as energy production (Krebs cycle), fatty acid synthesis, cholesterol synthesis, glycolysis, and gluconeogenesis . Transports citrate into the cell in a Na(+)-dependent manner, recognizing the trivalent form of citrate (physiological pH) rather than the divalent form . Can recognize succinate as a substrate, but its affinity for succinate is several fold lower than for citrate . The stoichiometry is probably 4 Na(+) for each carboxylate, irrespective of whether the translocated substrate is divalent or trivalent, rendering the process electrogenic . Involved in the regulation of citrate levels in the brain (By similarity)

Product:

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

Molecular Weight:

~63.1 kDa

Swiss-Prot:

Q86YT5

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

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

Specificity:

Recognizes endogenous levels of SLC13A5 protein

DATA:

Western blot analysis of CD4 expression in U937 (A) whole cell lysates. Immunofluorescent analysis of CD4 staining in PC12 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 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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