

NHE-7 (D566) polyclonal antibody

Catalog: BS3400

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Na⁺/H⁺ exchangers (NHE) of mammalian cells are plasma membrane intrinsic proteins mediating exchange of Na⁺ and H⁺ ions in various tissues. The NHE catalyzes the electroneutral transport of extracellular Na⁺ for intracellular H⁺. They play a major role in regulation of intracellular pH (pHi) in addition to trans-cellular absorption of Na⁺, cell volume regulation and possibly in cell proliferation. These primary functions of the Na⁺/H⁺ exchanger have been related to many pathophysiological states, include hypertension, organ growth and hypertrophy, regression of cancer and renal intestinal disorders. At least 7 NHE isoforms (NHE1-7) have been cloned so far. They are all similar in their primary structure and predicted to have 10-12 transmembrane domains. The C-terminal domain of NHEs are predicted to be intracellular. NHE7 (human 725 aa, chromosome Xp11.4) is ubiquitously expressed, and predominantly localizes to the trans-golgi network. NHE7 mediates the influx of Na⁺ or K⁺ in exchange for H⁺. It is ~70% related to NHE6 but relatively less (~25%) homologous with other NHEs.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 80 kDa

Swiss-Prot:

Q96T83

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

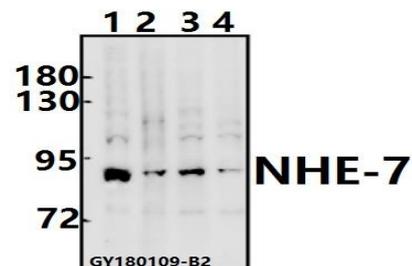
Storage&Stability:

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

Specificity:

NHE-7 (D566) polyclonal antibody detects endogenous levels of NHE-7 protein.

DATA:



Western blot (WB) analysis of NHE-7 (D566) pAb at 1:500 dilution

Lane1:CT26 whole cell lysate(40ug)

Lane2:PC12 whole cell lysate(40ug)

Lane3:U-87MG whole cell lysate(40ug)

Lane4:HCT116 whole cell lysate(40ug)

Note:

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

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