

## Product datasheet for **AP01502PU-N**

### SLC9A7 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	<b>Western Blot:</b> 1/500-1/1000.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	NHE-7 antibody detects endogenous levels of NHE-7 protein. (region surrounding Asp566)
Formulation:	Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction (>95% pure by SDS-PAGE)
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 80 kDa
Gene Name:	solute carrier family 9 member A7
Database Link:	<a href="#">Entrez Gene 84679 Human</a> <a href="#">Q96T83</a>



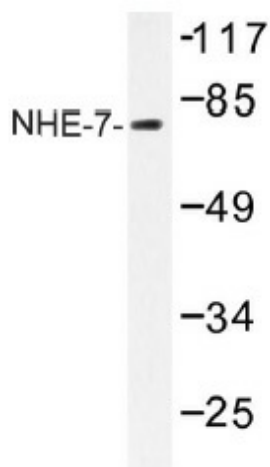
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**Background:**

Na<sup>+</sup>/H<sup>+</sup> exchangers (NHE) of mammalian cells are plasma membrane intrinsic proteins mediating exchange of Na<sup>+</sup> and H<sup>+</sup> ions in various tissues. The NHE catalyzes the electroneutral transport of extracellular Na<sup>+</sup> for intracellular H<sup>+</sup>. They play a major role in regulation of intracellular pH (pHi) in addition to trans-cellular absorption of Na<sup>+</sup>, cell volume regulation and possibly in cell proliferation. These primary functions of the Na<sup>+</sup>/H<sup>+</sup> 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<sup>+</sup> or K<sup>+</sup> in exchange for H<sup>+</sup>. It is ~70% related to NHE6 but relatively less (~25%) homologous with other NHEs.

**Synonyms:**

NHE-7, Sodium/hydrogen exchanger 7

**Product images:**


Western blot (WB) analysis of NHE-7 antibody (Cat.-No.: AP01502PU-N) in extracts from COLO cells.