

Human Sodium/Hydrogen Exchanger 1 (NHE1) ELISA Kit | NHE1 elisa kit

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CATALOG #
AAA186579

REACTIVITY
Human

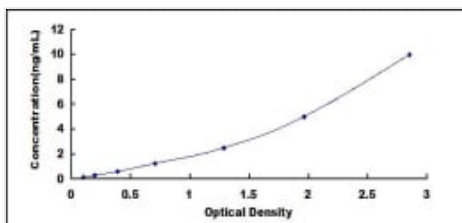
PRODUCT SYNONYMS

Sodium/Hydrogen Exchanger 1 (NHE1); Human Sodium/Hydrogen Exchanger 1 (NHE1) ELISA Kit; SLC9A1; APNH; Solute Carrier Family 9 Member 1; Sodium/Hydrogen Exchanger; Antiporter; Na⁺/H⁺; Amiloride Sensitive; Na⁺(+)/H⁺(+) antiporter; amiloride-sensitive; NHE1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Sodium/Hydrogen Exchanger 1 (NHE1). No significant cross-reactivity or interference between Sodium/Hydrogen Exchanger 1 (NHE1) and analogues was observed.
Sequence Length	555
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cell Lysates and Other Biological Fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.054ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Sodium/Hydrogen Exchanger 1 (NHE1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Sodium/Hydrogen Exchanger 1 (NHE1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for NHE1 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Sodium/Hydrogen Exchanger 1 (NHE1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Sodium/Hydrogen Exchanger 1 (NHE1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Sodium/Hydrogen Exchanger 1 (NHE1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Sodium/Hydrogen Exchanger 1 (NHE1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	27777632
NCBI GeneID	6548
NCBI Accession #	NP_003038.2
NCBI GenBank Nucleotide #	NM_003047.4
UniProt Accession #	P19634; Q96EM2; B1ALD6; D3DPL4
Molecular Weight	61,013 Da
NCBI Official Full Name	sodium/hydrogen exchanger 1
NCBI Official Synonym Full Names	solute carrier family 9 member A1
NCBI Official Symbol	SLC9A1
NCBI Official Synonym Symbols	APNH; NHE1; LIKNS; NHE-1; PPP1R143
NCBI Protein Information	sodium/hydrogen exchanger 1
UniProt Protein Name	Sodium/hydrogen exchanger 1
UniProt Gene Name	SLC9A1
UniProt Synonym Gene Names	APNH1; NHE1; NHE-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/sodium-hydrogen-exchanger-1-nhe1/186579>