

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

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CATALOG #
AAA277858

REACTIVITY
Rat

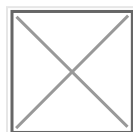
PRODUCT SYNONYMS

NHE1 (Sodium/Hydrogen Exchanger 1); Rat NHE1 (Sodium/Hydrogen Exchanger 1) 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	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat NHE1. No significant cross-reactivity or interference between Rat NHE1 and analogues was observed.
Assay Type	Sandwich
Detection Range	0.16-10 ng/mL
Sensitivity	0.049 ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay)? CV% < 8%. Three samples of known concentration were tested twenty times on 1 plate to assess intra-assay precision.
Inter-assay Precision	Inter-assay Precision (precision between assays)? CV% < 10%. Three samples of known concentration were tested in forty separate assays to assess inter-assay precision.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for NHE1 elisa kit

Principle of the Assay: 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 Rat NHE1. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Rat 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 Rat 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 Rat NHE1 in the samples is then determined by comparing the OD of the samples to the standard curve.

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.