

Rabbit NHE-3 Polyclonal Antibody | anti-NHE-3 antibody

Phospho-NHE-3 (Ser555) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329945	Rabbit	Human, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

NHE-3; Polyclonal Antibody; Phospho-NHE-3 (Ser555) Antibody; MGC126718; MGC126720; Na (+)/H (+) exchanger 3; NHE 3; NHE3; SL9A3_HUMAN; SLC9A 3; Slc9a3; Sodium/hydrogen exchanger 3; Sodium/hydrogen exchanger; apical epithelial; Solute carrier family 9 (sodium/hydrogen exchanger); isoform 3; member 3; Solute carrier family 9 member 3; anti-NHE-3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-NHE-3 (Ser555) Antibody detects endogenous levels of NHE-3 only when phosphorylated at Ser555.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-NHE-3 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human NHE-3 around the phosphorylation site of Ser555.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated by PKA, which inhibits activity. Phosphorylation at Ser-663 by SGK1 is associated with increased abundance at the cell membrane.
Subunit Structure	Binds SLC9A3R1 and SLC9A3R2. Interacts with CHP1, CHP2 and SHANK2. Interacts with PDZK1 (via C-terminal PDZ domain) (By similarity). Interacts with PDZD3 and interactions decrease in response to elevated calcium ion levels. Interacts with AHCYL1; the interaction is required for SLC9A3 activity.
Similarity	Belongs to the monovalent cation:proton antiporter 1 (CPA1) transporter (TC 2.A.36) family.
Subcellular Location	Apical cell membrane>Multi-pass membrane protein. Note: In intestinal epithelial cells, localizes to the ileal brush border. Phosphorylation at Ser-663 by SGK1 is associated with increased abundance at the cell membrane. Angiotensin-2 enhances apical expression (By similarity).
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohiostchemistry)
Staining Rat kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis NHE-3 (Phospho-Ser555) using EGF treated A431 whole cell lysates. -/+ means absence or presence of N peptide(1/4 non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-NHE-3 antibody	Involved in pHregulation to eliminate acids generated by active metabolism or to counter adverse environmental conditions. Major proton extruding system driven by the inward sodium ion chemical gradient. Plays an important role in signal transduction.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	547235625
NCBI GeneID	6550
NCBI Accession #	NP_001271280.1
NCBI GenBank Nucleotide #	NM_001284351.2
UniProt Accession #	P48764; Q3MIW3; B7ZKR2; E9PF67
Molecular Weight	91,904 Da
NCBI Official Full Name	sodium/hydrogen exchanger 3 isoform 2
NCBI Official Synonym Full Names	solute carrier family 9 member A3
NCBI Official Symbol	SLC9A3
NCBI Official Synonym Symbols	NHE3; DIAR8; NHE-3
NCBI Protein Information	sodium/hydrogen exchanger 3
UniProt Protein Name	Sodium/hydrogen exchanger 3
UniProt Gene Name	SLC9A3
UniProt Synonym Gene Names	NHE-3

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/polyclonal/nhe-3-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329945>