

Product Datasheet

NHE3/SLC9A3 [p Ser605] Antibody (10A8) - BSA Free NB110-74678

Unit Size: 0.1 ml

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

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NB110-74678

NHE3/SLC9A3 [p Ser605] Antibody (10A8) - BSA Free

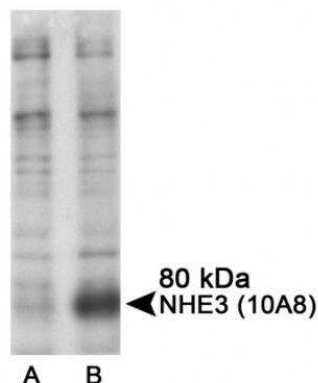
Product Information	
Unit Size	0.1 ml
Concentration	2.1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	10A8
Preservative	0.05% Sodium Azide
Isotype	IgG2b
Purity	Protein G purified
Buffer	Tris-Glycine and 0.15M NaCl
Target Molecular Weight	85 kDa

Product Description	
Host	Mouse
Gene ID	6550
Gene Symbol	SLC9A3
Species	Mouse, Rat, Porcine, Opossum, Primate, Rabbit
Reactivity Notes	Porcine reactivity reported in scientific literature (PMID: 29510506).
Specificity/Sensitivity	This antibody detects NHE3 phosphorylated at serine 605, and does not cross-react with the non-phosphopeptide.
Immunogen	Synthetic peptide made to a region surrounding the Serine 605 portion of rat NHE3. [UniProt# P26433]

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000, Immunocytochemistry/ Immunofluorescence 1:20, Immunoprecipitation 1:10-1:500
Application Notes	This NHE3 antibody is useful for Western blot, Immunocytochemistry/Immunofluorescence and Immunoprecipitation. In WB a band can be seen at ~85 kDa.

Images

Western Blot: NHE3/SLC9A3 [p Ser605] Antibody (10A8) [NB110-74678]
 - Detection of phospho Ser605 in transfected COS-7 cells using NB110-74678. A. untreated B. forskolin and IBMX treated.



Publications

Klinger S Segment specific effects of resveratrol on porcine small intestinal dipeptide absorption depend on the mucosal pH and are due to different mechanisms: Potential roles of different transport proteins and protein kinases J. Nutr. Biochem. 2020-07-29 [PMID: 32738496] (SDS-Page, WB, Porcine)

Klinger S, Breves G. Resveratrol Inhibits Porcine Intestinal Glucose and Alanine Transport: Potential Roles of Na⁺/K⁺-ATPase Activity, Protein Kinase A, AMP-Activated Protein Kinase and the Association of Selected Nutrient Transport Proteins with Detergent Resistant Membranes Nutrients. 2018-03-03 [PMID: 29510506] (WB, Porcine)

a DW, Steinmetz AG, Kocinsky HS. NHE3 function and phosphorylation are regulated by a calyculin A-sensitive phosphatase. Am J Physiol Renal Physiol;298(3):F745-53. 2010-03-01 [PMID: 20015946]

Kocinsky HS, Dynia DW, Wang T, Aronson PS. NHE3 phosphorylation at serines 552 and 605 does not directly affect NHE3 activity. Am J Physiol Renal Physiol;293(1):F212-8. 2007-07-01 [PMID: 17409282] (WB, Opossum, Rat)

Kocinsky HS, Girardi AC, Biemesderfer D, Nguyen T, Mentone S, Orlowski J, Aronson PS. Use of phospho-specific antibodies to determine the phosphorylation of endogenous Na⁺/H⁺ exchanger NHE3 at PKA consensus sites. Am J Physiol Renal Physiol;289(2):F249-58. 2005-08-01 [PMID: 15687252] (WB, Opossum, Primate)



Procedures

Protocol specific for Sodium / Hydrogen Exchanger 3 Antibody (NB110-74678)

NHE3/SLC9A3 [p Ser605] Antibody (10A8):

Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 30 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH₂O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% NFD_M + 1% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the mouse anti-NHE3 primary antibody (NB 110-74678) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted mouse-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).

Note: Tween-20 can be added to the blocking or antibody di





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Products Related to NB110-74678

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)
NB110-74678H	NHE3/SLC9A3 [p Ser605] Antibody (10A8) [HRP]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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