

Product Datasheet

NHE8 Antibody (7A11) - BSA Free NB110-62091

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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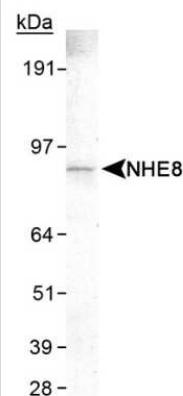
NB110-62091

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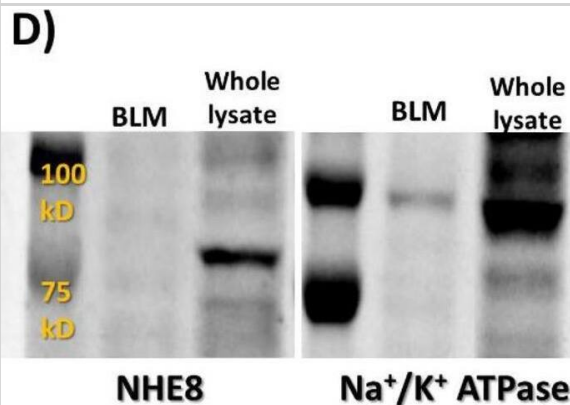
Product Information	
Unit Size	0.1 ml
Concentration	1.2 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	7A11
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	Tris-Glycine and 0.15M NaCl
Target Molecular Weight	80 kDa
Product Description	
Description	Novus Biologicals Mouse NHE8 Antibody (7A11) - BSA Free (NB110-62091) is a monoclonal antibody validated for use in WB and ICC/IF. Anti-NHE8 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	23315
Gene Symbol	SLC9A8
Species	Human, Mouse, Rat
Specificity/Sensitivity	This is specific for the 85 kDa mature glycosylated form of the protein. It does not recognize the 55 kDa immature form.
Immunogen	A fusion protein containing the C-terminal 89 residues of human NHE8. [Swiss-Prot# Q9Y2E8]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 2 ug/ml (ECL), Immunocytochemistry/ Immunofluorescence
Application Notes	This NHE8 antibody is useful for Western blot analysis where a band is seen at ~80 kDa. Please note that these samples should not be boiled. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

Western Blot: NHE8 Antibody (7A11) [NB110-62091] - Detection of NHE8 (7A11) in HeLa whole cell lysate



Immunofluorescence staining of NHE8 stained with Cy3 (Red) in isolated AEC (A and C) and A549 cell line (B), showing strong staining at the plasma membrane and a polar distribution in part of the cells (C). Nuclei were stained with Dapi (blue). (D) Western blot to BLM and whole lung lysate showing no existence of NHE8 in BLM fraction; yet, Na⁺/K⁺ ATPase used as a marker of basolateral membranes do exist. (E) NHE8 localization to apical membrane of alveolar epithelial cells was achieved by series of images taken by confocal microscope. The first image refers to the apical side while the last one refers to the basolateral side. The red signal got weaker as we imaged deeper; more obvious in the cell pointed with yellow arrow. BLM—basolateral membranes. NHE—Na⁺/H⁺ + Exchanger. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/33882062>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Kinaneh S, Knany Y, Khoury EE et al. Identification, localization and expression of NHE isoforms in the alveolar epithelial cells PLOS ONE 2021-04-21 [PMID: 33882062] (Western Blot, Immunocytochemistry/ Immunofluorescence, Rat)

Baum M, Martin MG, Booth IW, Holmberg C, Twombly K, Zhang Q, Gattineni J, Moe O. Nucleotide sequence of the Na⁺/H⁺ exchanger-8 in patients with congenital sodium diarrhea. J Pediatr Gastroenterol Nutr;53(5):474-7. 2011-11-01 [PMID: 21666503] (WB, Mouse)

Twombly K, Gattineni J, Bobulescu IA, Dwarakanath V, Baum M. Effect of metabolic acidosis on neonatal proximal tubule acidification. Am J Physiol Regul Integr Comp Physiol;299(5):R1360-8. 2010-11-01 [PMID: 20720175] (WB, Rat, Mouse)

Zhang J, Bobulescu IA, Goyal S, Aronson PS, Baum MG, Moe OW. Characterization of Na⁺/H⁺ exchanger NHE8 in cultured renal epithelial cells. Am J Physiol Renal Physiol;293(3):F761-6. 2007-09-01 [PMID: 17581925]

Goyal, S et al. Immunolocalization of NHE8 in rat kidney. Am J Physiol Renal Physiol;288(3):F530-8. 2005-03-01 [PMID: 15522984] (WB, ICC/IF, Rat)

Procedures

Western Blot protocol for NHE8 Antibody (NB110-62091)

NHE8 Antibody (7A11):

Western Blot Protocol

1. Perform SDS-PAGE (4-12% Bis-Tris NuPAGE) on samples to be analyzed, loading 35 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-NHE8 antibody (NB110-62091) 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 dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.





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Products Related to NB110-62091

NBL1-16200	NHE8 Overexpression Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97019-5mg	Mouse IgG Isotype Control

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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