

NHE3 Antibody
Catalog # **ASM10476**

Specification

NHE3 Antibody - Product Information

Application **WB**
Primary Accession [P26433](#)
Other Accession [NP_036786](#)
Host **Rabbit**
Reactivity **Mouse, Rat**
Clonality **Polyclonal**

Description

Rabbit Anti-Rat NHE3 Polyclonal

Target/Specificity

Detects ~84kDa.

Other Names

SLC9A3 Antibody, Na⁺/H⁺ exchanger 3 Antibody, isoform 3 Antibody, Solute carrier family 9 member 3 Antibody, NHE3MGC126720 Antibody, MGC126718 Antibody, solute carrier family 9 (sodium/hydrogen exchanger) member 3 Antibody, NHE-3 Antibody, Na(+)/H(+) exchanger 3 Antibody, Sodium/hydrogen exchanger 3 Antibody

Immunogen

Synthetic peptide mapping to AA 809 to 831 of rat sequence

Purification

Protein A Purified

Storage **-20°C**

Storage Buffer

PBS, 50% glycerol, 0.09% sodium azide

Shipping **Blue Ice or 4°C**
Temperature

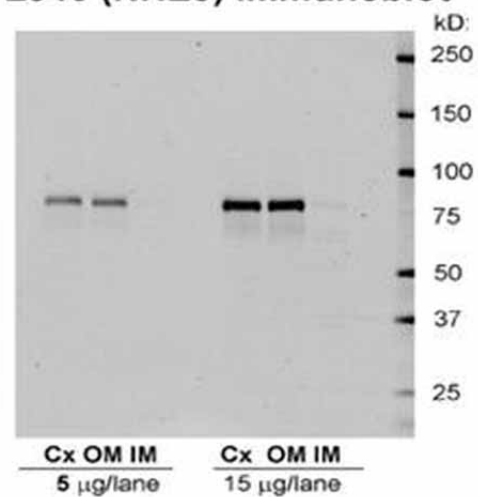
Certificate of Analysis

1 µg/ml of SPC-400 was sufficient for detection of HNE3 in 10 µg of rat kidney tissue lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

Cellular Localization

Membrane

L546 (NHE3) Immunoblot



Western blot analysis of Rat kidney tissue lysates showing detection of NHE3 protein using Rabbit Anti-NHE3 Polyclonal Antibody (ASM10476). Primary Antibody: Rabbit Anti-NHE3 Polyclonal Antibody (ASM10476) at 1:1000.

NHE3 Antibody - Background

Sodium-hydrogen exchanger 3 (NHE3; Slc9a3) is an epithelial transport protein that carries out 1:1 exchange of Na⁺ and H⁺ across the plasma membrane. It is apically located in the proximal tubule of the kidney, the thick ascending limb of the kidney, and in small intestine (1). NHE3 is phosphorylated and regulated by multiple kinases including PKA, SGK1 and CK2. It can be phosphorylated by calyculin A, and dephosphorylated by PP1 catalytic subunit in vitro (2).

NHE3 Antibody - References

1. Kim G.H., Ecelbarger C.A., Knepper M.A. and Packer R.K. (1999) J Am Soc Nephrol. 10: 935-942.
2. Dynia D.W., Steinmetz A.G. and Kocinsky H.S. (2010) Am J Physiol Renal Physiol. 298(3): F745-F753.

NHE3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)