

ARG22613 anti-Sodium / Hydrogen Exchanger 1 antibody [4E9]

Package: 50 µg

Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [4E9] recognizes Sodium / Hydrogen Exchanger 1 This antibody recognizes the Na ⁺ /H ⁺ exchanger-1 (NHE1), a membrane protein involved in pH regulation and signal transduction. Mouse anti Porcine sodium/hydrogen exchanger 1 antibody, clone 4E9 recognizes NHE1 from the salamander <i>Amphiuma tridactylum</i> (McLean et al. 1999) and in the flounder <i>Pseudopleuronectes americanus</i>
Tested Reactivity	Ms, Rat, Fsh, Pig, Rb
Tested Application	WB
Host	Mouse
Clonality	Monoclonal
Clone	4E9
Isotype	IgG1
Target Name	Sodium / Hydrogen Exchanger 1
Species	Pig
Immunogen	Maltose binding protein fusion protein containing the entire C-terminal, hydrophilic domain of porcine NHE1.
Conjugation	Un-conjugated
Alternate Names	Sodium/hydrogen exchanger 1; LIKNS; APNH; +; PPP1R143; Na; NHE-1; Solute carrier family 9 member 1; NHE1

Application Instructions

Application table	Application	Dilution
	WB	1:500

Application Note WB: OBT1655 detects a band of approximately 100 kDa in human kidney lysates.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS and 0.1% Sodium azide.
Preservative	0.1% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	SLC9A1
Gene Full Name	solute carrier family 9, subfamily A (NHE1, cation proton antiporter 1), member 1
Background	This gene encodes a Na ⁺ /H ⁺ antiporter that is a member of the solute carrier family 9. The encoded protein is a plasma membrane transporter that is expressed in the kidney and intestine. This protein plays a central role in regulating pH homeostasis, cell migration and cell volume. This protein may also be involved in tumor growth. [provided by RefSeq, Sep 2011]
Function	Involved in pH regulation 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. [UniProt]
Calculated Mw	91 kDa
PTM	O-glycosylated. Ubiquitinated, leading to its degradation by the proteasome. Ubiquitination is reduced by CHP1 (By similarity).