

Datasheet: OBT1655 BATCH NUMBER 166535

Description:	MOUSE ANTI Na+/H+ EXCHANGER-1
Specificity:	Na+/H+ EXCHANGER-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	4E9
Isotype:	lgG1
Quantity:	0.1 mg

Product Details

Applications	This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-rad-antibodies.com/protocols</u> .				
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry				
	Immunohistology - Frozen		•		
	Immunohistology - Paraffin		•		
	ELISA			•	
	Immunoprecipitation				
	Western Blotting	-			1/500
Target Species	a guide only. It is recomm system using appropriate Pig			•	or use in their own
Species Cross Reactivity	Reacts with: Rabbit, Fish, Mouse, Rat, Salamander Based on sequence similarity, is expected to react with:Vertebrates N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.				
Product Form	Purified IgG - liquid				
Preparation	Purified IgG prepared by	affinity ch	romatogr	aphy on Protein A fror	n tissue culture

	supernatant				
Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)				
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml				
Immunogen	Maltose binding protein fusion protein containing the entire C-terminal, hydrophilic domain of porcine NHE1.				
External Database Links	UniProt: P48762 Related reagents Entrez Gene: <u>397458</u> SLC9A1 <u>Related reagents</u>				
Synonyms	NHE1				
RRID	AB_609778				
Specificity	Mouse anti Porcine sodium/hydrogen exchanger 1 antibody, clone 4E9 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 <i>et al.</i> 1999) and in the flounder <i>Pseudopleuronectes americanus</i>				
Western Blotting	OBT1655 detects a band of approximately 100 kDa in human kidney lysates.				
References	 Rutherford, P.A. <i>et al.</i> (1997) Expression of Na(+)-H+ exchanger isoforms NHE1 and NHE3 in kidney and blood cells of rabbit and rat. <u>Exp Nephrol. 5 (6): 490-7.</u> McLean LA <i>et al.</i> (1999) Cloning and expression of the Na+/H+ exchanger from <i>Amphiuma</i> RBCs: resemblance to mammalian NHE1. <u>Am J Physiol. 276 (5 Pt 1):</u> <u>C1025-37.</u> Biemesderfer, D. <i>et al.</i> (1999) Specific association of megalin and the Na+/H+ exchanger isoform NHE3 in the proximal tubule. <u>J Biol Chem. 274 (25): 17518-24.</u> Claiborne, J.B. <i>et al.</i> (1999) A mechanism for branchial acid excretion in marine fish: identification of multiple Na+/H+ antiporter (NHE) isoforms in gills of two seawater teleosts. <u>J Exp Biol. 202: 315-24.</u> Liu, F. & Gesek, F.A. (2001) alpha(1)-Adrenergic receptors activate NHE1 and NHE3 through distinct signaling pathways in epithelial cells. <u>Am J Physiol Renal Physiol. 280 (3):</u> <u>F415-25.</u> Choe, K.P. <i>et al.</i> (2002) Immunological detection of Na(+)/H(+) exchangers in the gills of a hagfish, Myxine glutinosa, an elasmobranch, Raja erinacea, and a teleost, <i>Fundulus</i> <i>heteroclitus</i>. <u>Comp Biochem Physiol A Mol Integr Physiol. 131: 375-85.</u> 				

	 Goyal, S. <i>et al.</i> (2003) Renal expression of novel Na+/H+ exchange <u>J Physiol Renal Physiol. 284 (3): F467-73.</u> Pedersen, S.F. <i>et al.</i> (2003) Molecular cloning of NHE1 from winter activation by osmotic shrinkage, cAMP, and calyculin A. <u>Am J Physiol</u> (6): C1561-76. 	flounder RBCs:	
StorageThis product is shipped at ambient temperature. It is recommended to alique -20°C on receipt. When thawed, aliquot the sample as needed. Keep alique short term use (up to 4 weeks) and store the remaining aliquots at -20°C.			
	Avoid repeated freezing and thawing as this may denature the antiboo frost-free freezers is not recommended.	ly. Storage in	
Guarantee	12 months from date of despatch		
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/OBT1655 10040		
Regulatory	For research purposes only		

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77)	HRP			
Rabbit Anti Mouse IgG (STAR12)	RPE			
Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u>				
Goat Anti Mouse IgG (STAR76)	RPE			
Rabbit Anti Mouse IgG (STAR13)	HRP			
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>			
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,			
	DyLight®650, DyLight®680, DyLight®800,			
	FITC, HRP			
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>			
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP			
Recommended Negative Controls				

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South	Tel: +1 800 265 7376	/orldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.co	om	Email: antibody_sales_uk@bio-rad	d.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M381654:210512'

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