

Datasheet: OBT1655 BATCH NUMBER 145796

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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				
Immunohistology - Frozen		•		
Immunohistology - Paraffin				
ELISA				
Immunoprecipitation		•		
Western Blotting	-			1/500

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Pig
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 chromatography on Protein A from tissue culture

supernatant

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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: 397458 SLC9A1 Related reagents
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 et al. 1999) and in the flounder Pseudopleuronectes americanus
Western Blotting	OBT1655 detects a band of approximately 100 kDa in human kidney lysates.
References	1. 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. Exp Nephrol. 5 (6): 490-7. 2. 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 heteroclitus</i> . Comp Biochem Physiol A Mol Integr Physiol. 131: 375-85. 3. 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. J Exp Biol. 202: 315-24. 4. Biemesderfer, D. <i>et al.</i> (1999) Specific association of megalin and the Na+/H+ exchanger isoform NHE3 in the proximal tubule. J Biol Chem. 274 (25): 17518-24. 5. McLean LA <i>et al.</i> (1999) Cloning and expression of the Na+/H+ exchanger from <i>Amphiuma</i> RBCs: resemblance to mammalian NHE1. Am J Physiol. 276 (5 Pt 1): C1025-37. 6. Pedersen, S.F. <i>et al.</i> (2003) Molecular cloning of NHE1 from winter flounder RBCs: activation by osmotic shrinkage, cAMP, and calyculin A. Am J Physiol Cell Physiol. 284 (6): C1561-76.

7. 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> F415-25.

8. Goyal, S. *et al.* (2003) Renal expression of novel Na+/H+ exchanger isoform NHE8. <u>Am</u> J Physiol Renal Physiol. 284 (3): F467-73.

Storage Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend

microcentrifugation before use.

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

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Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) RPE

Goat Anti Mouse IgG IgA IgM (STAR87...) HRP

Goat Anti Mouse IgG (STAR76...) RPE

Goat Anti Mouse IgG (STAR70...) FITC

Rabbit Anti Mouse IgG (STAR13...) HRP

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

Rabbit Anti Mouse IgG (STAR9...) FITC

Goat Anti Mouse IgG (STAR77...) HRP

Email: antibody_sales_us@bio-rad.com

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,

DyLight®650, DyLight®680, DyLight®800,

FITC, HRP

North & South Tel: +1 800 265 7376

Fax: +1 919 878 3751

America

Worldwide

Tel: +44 (0)1865 852 700

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Fax: +49 (0) 89 8090 95 50 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 'M369337:200529'

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