ANTIBODYSHOP®

PRODUCT SPECIFICATION

25/05/2016

Anti-γENaC (γ–subunit epithelial sodium channel)

Mouse monoclonal antibody

Subclass: IgG1/k

Clone: 3c7

CAT. NO. **CAM 003-07**

SPECIFICITY	CAM 003-07 is specific for the inhibitory tract of human γENaC subunit.
IMMUNOGEN	The inhibitory peptide from the human γENaC subunit. EAESWNSVSEGKQPRFSHRIPLC corresponding to amino acid residue 139-160 of human γENaC subunit.
TESTED APPLICATIONS	ELISA, WB, IHC-P, IHC-F
SPECIES REACTIVITY (POSITIVE)	Human
SPECIES REACTIVITY (NEGATIVE)	Not determined
EPITOPE SPECIFICITY	The epitope is on the inhibitory tract of human γENaC. The epitope differs from that of CAM 005-02.

PRESENTATION	
Content:	Available in 200 µL and 1 mL size.1 mg/mL +/- 15%. See Certificate of Analysis for details.
Preparation:	Protein-A purified
Form:	Liquid
Solvent:	0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide
Storage:	4-8ºC without exposure to light. No precautions necessary during handling.

APPLICATION

ELISA: CAM 003-07 was used in ELISA. A sandwich ELISA can be made using CAM 003-07 (1-4 µg/ml) as the capture antibody and biotinylated CAM 005-02 (0.05 - 0.2 µg/ml) as the detection antibody in order to detect the peptide from the inhibitory tract (AA 138-131).
WB: CAM 003-07 was used in Western blot (1,2).
IHC: CAM 003-07 was used in immunohistochemistry.

TARGET

The epithelial sodium channel (ENaC) of the kidney is necessary for extracellular volume homeostasis and normal arterial BP. Activity of ENaC is enhanced by proteolytic cleavage of the γ-subunit and putative release of a 43-amino acid inhibitory tract from the γ-subunit ectodomain.

REFERENCES

1. Svenningsen P, Uhrenholt TR, Palarasah Y, Skjodt K, Jensen BL, Skott O (2009) Prostasin-dependent activation of epithelial Na+ channels by low plasmin concentrations. Am J Physiol Regul Integr Comp Physiol 297:R1733-R1741.

2. Zachar RM, Skjødt K, Marcussen N, Walter S, Toft A, Nielsen MR, Jensen BL, Svenningsen P. The Epithelial Sodium Channel γ-Subunit Is Processed Proteolytically in Human Kidney. J Am Soc Nephrol. 2014 Jul 24. pii: ASN.2013111173. (epub ahead of print).

CONDITIONS

Unless otherwise marked, all products are for research use only. Not for use in diagnostic procedures. Not for use in human therapeutic applications. For in vitro use or further manufacture only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The foregoing is in lieu of all warranties, expressed or implied, including implied warranties of merchantability and fitness for a particular purpose. In no event shall BioPorto Diagnostics A/S be responsible for loss of profits or indirect consequential losses resulting from use of its products.

BioPorto Diagnostics A/S • Tuborg Havnevej 15, st. • DK-2900 Hellerup • Denmark • info@bioporto.com
www.bioporto.com • Phone: +45 4529 0000 • Fax: +45 4529 0001 • CVR/VAT: DK-1864 5882