

## Anti-γENaC (γ-subunit epithelial sodium channel)

CAT. NO. CAM 003-07

### OVERVIEW

<b>Product Name</b>	Anti-γENaC (γ-subunit epithelial sodium channel)	<b>Conjugation</b>	Unconjugated
<b>Description</b>	Mouse monoclonal antibody	<b>Host</b>	Mouse
<b>Isotype</b>	IgG1/k	<b>Clone</b>	3c7
<b>Tested Applications</b>	ELISA, WB, IHC		

### SPECIFICITY

<b>Specificity</b>	CAM 003-07 is specific for the inhibitory tract of human γENaC subunit. The epitope differs from that of CAM 005-02		
<b>Immunogen</b>	The inhibitory peptide from the human γENaC subunit. EAESWNSVSEGGKQPRFSHRIPLC corresponding to amino acid residue 139-160 of human γENaC subunit.	<b>Gene ID</b>	6340
<b>Target</b>	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.		
<b>Species Reactivity POSITIVE</b>	Human	<b>Species Reactivity NEGATIVE</b>	Not determined

### PROPERTIES

<b>Form</b>	Liquid	<b>Unit Size</b>	0,4 mL and 1 mL
<b>Concentration</b>	1 mg/mL ±15%, See CoA for lot details		
<b>Purification</b>	Protein A or Protein G purified	<b>Purification Notes</b>	BSA free
<b>Storage buffer</b>	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide		
<b>Storage condition</b>	2-8°C without exposure to light		
<b>Safety</b>	Wear protective clothing		

### TESTED APPLICATIONS

<b>ELISA</b>	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).
<b>WB</b>	CAM 003-07 was used in Western blot. (1,2)
<b>IHC</b>	CAM 003-07 was used in immunohistochemistry.

### SCIENTIFIC REFERENCES

- Svenningsen P, Uhrenholt TR, Palarasah Y, Skjodt K, Jensen BL, Skott O (2009) Prostaticin-dependent activation of epithelial Na<sup>+</sup> channels by low plasmin concentrations. *Am J Physiol Regul Integr Comp Physiol* 297:R1733-R1741.
- Zachar RM, Skjødtt K, Marcussen N, Walter S, Toft A, Nielsen MR, Jensen BL, Svenningsen P. The Epithelial Sodium Channel-Subunit Is Processed Proteolytically in Human Kidney. *J Am Soc Nephrol*. 2014 Jul 24. pii: ASN.2013111173.

#### 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.