

Anti- γ ENaC (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 γ ENaC subunit.
IMMUNOGEN	The inhibitory peptide from the human γ ENaC subunit. EAESWNSVSEGGKQPRFSHRIPLC corresponding to amino acid residue 139-160 of human γ ENaC 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 γ ENaC. The epitope differs from that of CAM 005-02.

PRESENTATION

Content:	Available in 400 μ L 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:	4-8°C 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 μ g/ml) as the capture antibody and biotinylated CAM 005-02 (0.05 - 0.2 μ g/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

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

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