

**Anti- $\gamma$ ENaC ( $\gamma$ -subunit epithelial sodium channel)****Mouse monoclonal antibody**

Subclass: IgG1/k

Clone: 5c2

CAT. NO.

**CAM 005-02**

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

**PRESENTATION**

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Content:	Available in 400 $\mu$ 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.

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APPLICATION	<b>ELISA:</b> A sandwich ELISA can be made using CAM 003-07 (1-4 $\mu$ g/ml) as the capture antibody and biotinylated CAM 005-02 (0.05 - 0.2 $\mu$ g/ml) as the detection antibody in order to detect the peptide from the inhibitory tract (AA 138-131). <b>WB:</b> CAM 005-02 was used in Western blot (1). <b>IHC:</b> CAM 005-02 was used in immunohistochemistry (1). <b>IF:</b> CAM 005-02 was used in immunofluorescence (1).
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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 $\gamma$ -subunit and putative release of a 43-amino acid inhibitory tract from the $\gamma$ -subunit ectodomain.
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REFERENCES	1. Zachar RM, Skjødt K, Marcussen N, Walter S, Toft A, Nielsen MR, Jensen BL, Svenningsen P. The Epithelial Sodium Channel $\gamma$ -Subunit Is Processed Proteolytically in Human Kidney. J Am Soc Nephrol. 2014 Jul 24. pii: ASN.2013111173. (epub ahead of print).
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**CONDITIONS**

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