

Anti- γ ENaC (γ -subunit epithelial sodium channel, neoepitope)

Mouse monoclonal antibody

Subclass: IgG1/k

CAT. NO.

CAM 035-01

Clone: 11-35-1

SPECIFICITY CAM 035-01 is specific for the neoepitope generated after proteolytic cleavage of human γ ENaC and recognizes the C-terminal fragment.

IMMUNOGEN Synthetic peptide sequence: VGGSIHKAC

TESTED APPLICATIONS ELISA, WB, IHC-P, IHC-F, IF

SPECIES REACTIVITY (POSITIVE) Human

SPECIES REACTIVITY (NEGATIVE) Not determined

EPITOPE SPECIFICITY CAM 035-01 is specific for the neoepitope generated after proteolytic cleavage of human ENaC and recognizes the C-terminal fragment starting from amino acid residue 182.

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 035-01 was used in ELISA.

WB: CAM 035-01 was used in Western blot (1).

IHC: CAM 035-01 was used in immunohistochemistry (1).

IF: CAM 035-01 was used in immunofluorescence (1).

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. In the γ -subunit, putative cleavage sites for prostaticin, kallikrein (similar site as prostaticin), elastase, and plasmin exist. Prostaticin is a glycosylphosphatidylinositol anchored apical serine protease expressed in the collecting duct that activates γ ENaC at a site close to but in the C-terminal direction to the furin cleavage with putative release of a 43-residue inhibitory tract.

REFERENCES

1. 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

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