

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

CAT. NO. CAM 035-01

OVERVIEW

Product Name	Anti- γ ENaC (γ -subunit epithelial sodium channel, neoepitope)	Conjugation	Unconjugated
Description	Mouse monoclonal antibody	Host	Mouse
Isotype	IgG1/k	Clone	11-35-1
Tested Applications	ELISA, WB, IHC, IF		

SPECIFICITY

Specificity	CAM 035-01 is specific for the neoepitope generated after proteolytic cleavage of human γ ENaC and recognizes the C-terminal fragment starting from amino acid residue 182.		
Immunogen	Synthetic peptide sequence: VGGSIHKAC	Gene ID	6340
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. (1)		
Species Reactivity POSITIVE	Human	Species Reactivity NEGATIVE	Not determined

PROPERTIES

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

TESTED APPLICATIONS

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).

SCIENTIFIC 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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