

Anti-γENaC (γ-subunit epithelial sodium channel)

CAT. NO. CAM 005-02

OVERVIEW

Product Name	Anti-γENaC (γ-subunit epithelial sodium channel)	Conjugation	Unconjugated
Description	Mouse monoclonal antibody	Host	Mouse
Isotype	IgG1/k	Clone	5c2
Tested Applications	ELISA, WB, IHC, IF		

SPECIFICITY

Specificity	CAM 005-02 is specific for the inhibitory tract of human γENaC subunit. The epitope differs from that of CAM 003-07.		
Immunogen	The inhibitory peptide from the human γENaC subunit. EAESWNSVSEGKQPRFSHRIPLC corresponding to amino acid residue 139-160 of human γENaC subunit.	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 g-subunit and putative release of a 43-amino acid inhibitory tract from the g-subunit ectodomain.		
Species Reactivity POSITIVE	Human	Species Reactivity NEGATIVE	Not determined

PROPERTIES

Form	Liquid	Unit Size	0,4 mL and 1 mL
Concentration	1 mg/mL ±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	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).
WB	CAM 005-02 was used in Western blot. (1)
IHC	CAM 005-02 was used in immunohistochemistry. (1)
IF	CAM 005-02 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 g-Subunit Is Processed Proteolytically in Human Kidney. J Am Soc Nephrol. 2014 Jul 24. pii: ASN.2013111173.

CONDITIONS

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