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PRODUCT DATASHEET

Anti-SCNN1G/Gamma-Subunit Epithelial Sodium Channel Antibody

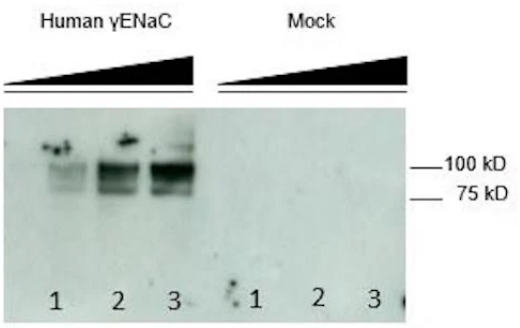
Product Details

Available Variants	100 uL (SKU:CAM 003-07-010) 400 uL (SKU:CAM 003-07-04) 1000 uL (SKU:CAM 003-07-1)
Conjugate	Unconjugated
Isotype	IgG1/k
Clone	3c7
Gene Name	SCNN1G
Host Species	Mouse
Concentration	1 mg/mL ±15%
Format	Protein A or Protein G purified
Physical State	Liquid
Buffer	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide
Production Notes	BSA free
Applications	ELISA, IHC, WB
Species Reactivity	Human
Immunogen	The inhibitory peptide from the human yENaC subunit. EAESWNSVSEGKQPRFSHRIPLC corresponding to amino acid residue 139-160 of human yENaC subunit.
Specificity	CAM 003-07 is specific for the inhibitory tract of human yENaC subunit. The epitope differs from that of CAM 005-02
Molecular Weight	74 kDa
Storage	2-8°C without exposure to light
UniProt ID	P51170 UniProt Summary: This is one of the three pore-forming subunits of the

heterotrimeric epithelial sodium channel (ENaC), a critical regulator of sodium balance and fluid homeostasis (PubMed:30251954, PubMed:32729833, PubMed:7550319, PubMed:7762608, PubMed:9792722). ENaC operates in epithelial tissues, where it mediates the electrodiffusion of sodium ions from extracellular fluid through the apical membrane of cells, with water following osmotically (PubMed:24124190). It plays a key role in maintaining sodium homeostasis through electrogenic sodium reabsorption in the kidneys (PubMed:12107247, PubMed:7550319, PubMed:8640238). Additionally, ENaC is essential for airway surface liquid homeostasis, which is crucial for proper mucus clearance (PubMed:18507830, PubMed:19017867, PubMed:24124190). {ECO:0000269|PubMed:12107247, ECO:0000269|PubMed:18507830, ECO:0000269|PubMed:19017867, ECO:0000269|PubMed:24124190, ECO:0000269|PubMed:30251954, ECO:0000269|PubMed:32729833, ECO:0000269|PubMed:7550319, ECO:0000269|PubMed:7762608, ECO:0000269|PubMed:8640238, ECO:0000269|PubMed:9792722}.

Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.
NCBI Gene ID	6340

Product Images



Western blot detection of SCNN1G/Gamma-Subunit Epithelial Sodium Channel using Anti-SCNN1G/Gamma-Subunit Epithelial Sodium Channel Antibody (Cat.CAM 003-07-010). Gel was loaded with HEK293 cells transfected with and without γENaC. Lane 1 loaded with 5µg, Lane 2 loaded with 10µg, Lane 3 loaded with 20 µg. Proteins were transferred to the membrane, blocked, and then washed with a buffer. Primary antibody was incubated with sample and then detected via ECL using a secondary antibody.