

alpha-ENaC Polyclonal Antibody

Catalog NumberPA5-35364

Product data sheet

Details		Species Reactivity	
Size	400 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Flow Cytometry (Flow)	1:10-1:50
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:50
Immunogen	KLH conjugated synthetic peptide between 365-391 amino acids from the central region of human SCNN1A	Western Blot (WB)	1:2,000
		Immunocytochemistry (ICC/IF)	1:10-1:50
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	0.5 mg/mL		
Purification	Protein A, Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.09% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Background/Target Information

Epithelial sodium channels are amiloride-sensitive members of the degenerin/epithelial sodium channel (Deg/ENaC) superfamily of ion channels. Members of this superfamily of ion channels share organizational similarity in that they all possess two short intracellular amino and carboxyl termini, two short membrane spanning segments, and a large extracellular loop with a conserved cysteine-rich region. There are three homologous isoforms of the ENaC (alpha, beta, and gamma) protein. ENaC in the kidney, lung, and colon plays an essential role in trans-epithelial sodium and fluid balance. ENaC also mediates aldosterone-dependent sodium reabsorption in the distal nephron of the kidney, thus regulating blood pressure. ENaC is thought to be regulated, in part, through association with the cystic fibrosis transmembrane conductance regulator (CFTR) chloride ion channel. Gain-of-function mutations in beta- or gamma-ENaC can cause severe arterial hypertension (Liddle's syndrome) and loss-of-function mutations in alpha- or beta-ENaC causes pseudohypoaldosteronism (PHA-1).

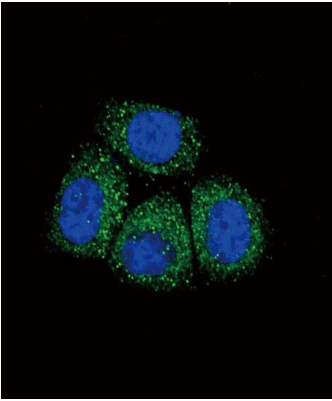
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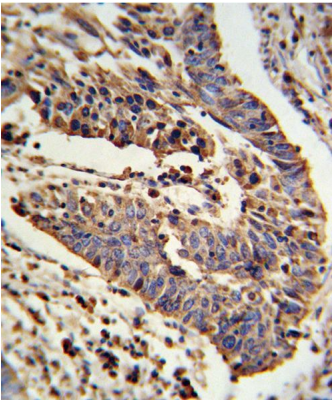
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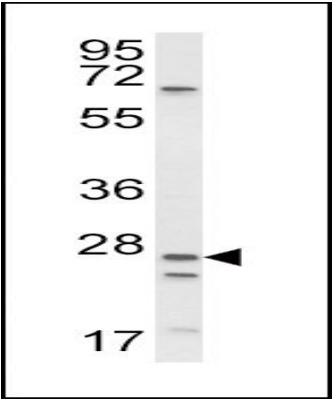
Product Images For alpha-ENaC Polyclonal Antibody



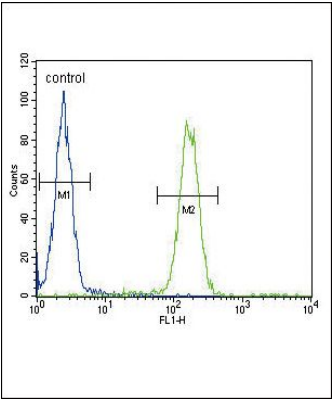
alpha-ENaC Antibody (PA5-35364) in ICC/IF
Immunofluorescent analysis of SCNN1A in HeLa cells using a SCNN1A polyclonal antibody (Product # PA5-35364) followed by detection using a fluorescent conjugated secondary antibody (green). Nuclei were stained with Dapi (blue).



alpha-ENaC Antibody (PA5-35364) in IHC (P)
Immunohistochemistry analysis of SCNN1A in formalin-fixed, paraffin-embedded human lung carcinoma using a SCNN1A polyclonal antibody (Product # PA5-35364) followed by DAB staining.



alpha-ENaC Antibody (PA5-35364) in WB
Western blot analysis of SCNN1A in WiDr cell lysate (35 µg/lane) using a SCNN1A polyclonal antibody (Product # PA5-35364).



alpha-ENaC Antibody (PA5-35364) in Flow
Flow cytometry analysis of SCNN1A in WiDr cells (right) compared to a negative control (left) using a SCNN1A polyclonal antibody (Product # PA5-35364) followed by detection using a FITC-conjugated goat-anti-rabbit secondary antibody.

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