abcam

Product datasheet

Anti-epithelial Sodium Channel alpha antibody ab214192

1 References 2 图像

概述

产品名称	Anti-epithelial Sodium Channel alpha抗体
描述	兔多克隆抗体to epithelial Sodium Channel alpha
宿主	Rabbit
经测试应用	**适用于:** WB
种属反应性	**与反应:** Mouse, Rat
免疫原	Synthetic peptide within Human epithelial Sodium Channel alpha aa 200-300 conjugated to keyhole limpet haemocyanin. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. Database link: **P37088** Run BLAST with Run BLAST with
阳性对照	WB: Mouse and rat kidney lysate.
常规说明	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), 1% BSA, 48.98% TBS, 1X
纯度	Protein A purified
克隆	多克隆

同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab214192于以下的经测试应用

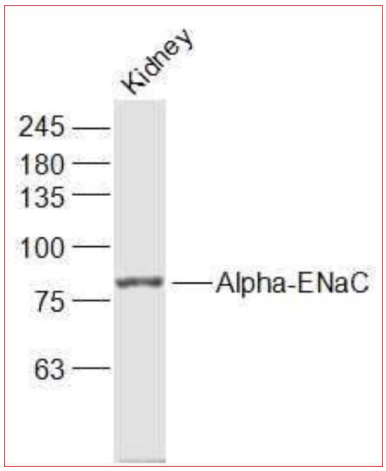
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000. Detects a band of approximately 77 kDa (predicted molecular weight: 76 kDa).

靶标

功能	Sodium permeable non-voltage-sensitive ion channel inhibited by the diuretic amiloride. Mediates the electrodiffusion of the luminal sodium (and water, which follows osmotically) through the apical membrane of epithelial cells. Controls the reabsorption of sodium in kidney, colon, lung and sweat glands. Also plays a role in taste perception.
组织特异性	Highly expressed in kidney and lung. Detected at intermediate levels in pancreas and liver, and at low levels in heart and placenta. Isoform 1 and isoform 2 predominate in all tissues. Expression of isoform 3, isoform 4 and isoform 5 is very low or not detectable, except in lung and heart.
疾病相关	Defects in SCNN1A are a cause of autosomal recessive pseudohypoaldosteronism type 1 (AR-PHA1) [MIM:264350]. PHA1 is a rare salt wasting disease resulting from target organ unresponsiveness to mineralocorticoids. There are 2 forms of PHA1: the autosomal recessive form that is severe, and the dominant form which is milder and due to defects in mineralocorticoid receptor. AR-PHA1 is characterized by an often fulminant presentation in the neonatal period with dehydration, hyponatraemia, hyperkalaemia, metabolic acidosis, failure to thrive and weight loss. Note=The degree of channel function impairment differentially affects the renin-aldosterone system and urinary Na/K ratios, resulting in distinct genotype-phenotype relationships in PHA1 patients. Loss-of-function mutations are associated with a severe clinical course and age-dependent hyperactivation of the renin-aldosterone system. This feature is not observed in patients with missense mutations that reduce but do not eliminate channel function. Markedly reduced channel activity results in impaired linear growth and delayed puberty. Defects in SCNN1A are a cause of bronchiectasis with or without elevated sweat chloride type 2 (BESC2) [MIM:613021]; also called cystic fibrosis-like syndrome. BESC2 is a debilitating respiratory disease characterized by chronic abnormal dilatation of the bronchi and other cystic fibrosis-like symptoms in the absence of known causes of bronchiectasis (cystic fibrosis, autoimmune diseases, ciliary dyskinesia, common variable immunodeficiency, foreign body obstruction). Clinical features include subnormal lung function, sinopulmonary infections, chronic productive cough, excessive sputum production, and elevated sweat chloride in some cases.
序列相似性	Belongs to the amiloride-sensitive sodium channel (TC 1.A.6) family. SCNN1A subfamily.
翻译后修饰	Ubiquitinated; this targets individual subunits for endocytosis and proteasome-mediated degradation.
细胞定位	Apical cell membrane. Apical membrane of epithelial cells.

图片



Western blot - Anti-epithelial Sodium Channel alpha antibody (ab214192)

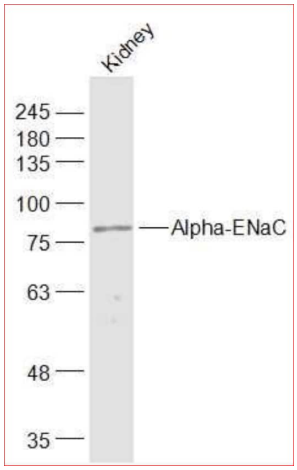
Mouse kidney lysate (40 ug)

Primary: ab214192 at 1/1000 dilution

Secondary: IRDye800CW Goat anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 76 kD

Observed band size: 77 kD



Western blot - Anti-epithelial Sodium Channel alpha antibody (ab214192)

Rat kidney lysate (40 ug)

Primary: ab214192 at 1/1000 dilution

Secondary: IRDye800CW Goat anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 76 kD

Observed band size: 77 kD

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