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KCNK5 Rabbit pAb

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Catalog # AP56461

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O95279
Predicted	Rat, Human, Mouse, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55130
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KCNK5
Epitope Specificity	101-200/499
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes one of the members of the superfamily of potassium channel proteins containing two pore-forming P domains. The message for this gene is mainly expressed in the cortical distal tubules and collecting ducts of the kidney. The protein is highly sensitive to external pH and this, in combination with its expression pattern, suggests it may play an important role in renal potassium transport. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	8645
Other Names	Potassium channel subfamily K member 5, Acid-sensitive potassium channel protein TASK-2, TWIK-related acid-sensitive K(+) channel 2, KCNK5 (HGNC:6280)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	KCNK5 (HGNC:6280)
Function	K(+) channel that conducts voltage-dependent outward rectifying currents upon membrane depolarization. Voltage sensing is coupled to K(+) electrochemical gradient in an 'ion flux gating' mode where outward but not inward ion flow opens the gate (PubMed:26919430, PubMed:36063992, PubMed:9812978). Homo- and heterodimerizes to form functional channels with distinct regulatory and gating properties (PubMed:36063992).
Cellular Location	Membrane; Multi-pass membrane protein
Tissue Location	Abundant expression in kidney, also detected in liver, placenta and small intestine. In the kidney, expression is restricted to the distal tubules and collecting ducts (PubMed:9812978) Not expressed in proximal tubules or glomeruli (PubMed:9812978) Expressed in pancreas, in both endocrine (alpha, beta, gamma, delta, and epsilon) and exocrine (acinar and ductal) cells

Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.