OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA328967

Kcnj8 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)KRNSMRRNNSMRRSN, corresponding to amino acid residues 382-396 of rat Kir6.1.Â Intracellular, C-terminal part.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS) pH 7.4, 1% BSA, 0.025% NaN3.
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	potassium voltage-gated channel subfamily J member 8
Database Link:	NP_058795 Entrez Gene 25472 Rat Q63664

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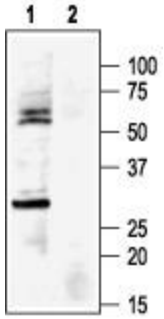
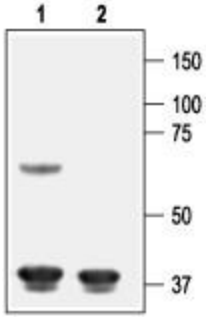
Background: Kir 6.1 is a member of the inward rectifier K+ channels (Kir channels), a large family of voltage-independent K+ channels largely involved in stabilization of the membrane resting potential and in K+ transport across membranes. Kir 6.1 like its close relative Kir 6.2 is highly sensitive to inhibition by intracellular ATP. Closure of the channel leads to membrane depolarization hence coupling intracellular metabolism to cellular excitability. Kir 6.1 presents the common topology of the inward-rectifier superfamily: two transmembrane domains flanking a highly conserved pore region with the N and C-terminus located intracellularly. The functional ATP sensitive channel (KATP) is composed of octamers of four Kir 6.x subunits and four members of the sulfonylurea receptor family SUR1, SUR2A and SUR2B. Kir 6.1 tissue distribution is relatively broad with expression detected in heart, brain, and smooth muscle. We are pleased to introduce an antibody against a highly specific region in the C-terminal intracellular domain of the rat Kir 6.1 subunit. Anti-Kir 6.1 antibody (#APC-105) should also recognize Kir 6.1 from human, mouse, pig and rabbit origin.

Synonyms: KIR6.1; uKATP-1

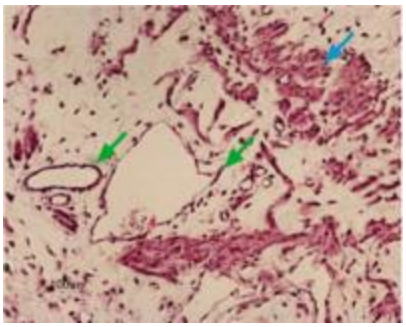
Product images:



Western blot analysis of rat heart membranes: 1. Anti-Kir6.1 antibody, (1:200). 2. Anti-Kir6.1 antibody, preincubated with the control peptide antigen.



Western blot analysis of rat cortex lysate: 1. Anti-Kir6.1 antibody, (1:200). 2. Anti-Kir6.1 antibody, preincubated with the control peptide antigen.



Expression of Kir6.1 in rat uterus. Immunohistochemical stain of pregnant rat longitudinal section of the myometrium using Anti-Kir6.1 antibody, (1:50). Strong and specific staining is evident in smooth muscles cells both in the myometrium (blue arrow) and muscular layers of blood vessels (green arrow). Peroxidase reaction with DAB were used for the color reaction. Hematoxilin is used as the counterstain.