

For Research Use Only

Kir2.1 Polyclonal antibody

Catalog Number: 19965-1-AP **8 Publications**



Basic Information

Catalog Number: 19965-1-AP	GenBank Accession Number: NM_000891	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 700 µg/ml by Nanodrop and 327 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3759	Recommended Dilutions: WB 1:200-1:1000 IHC 1:20-1:200
Source: Rabbit	UNIPROT ID: P63252	
Isotype: IgG	Full Name: potassium inwardly-rectifying channel, subfamily J, member 2	
	Calculated MW: 48 kDa	
	Observed MW: 50 kDa, 60 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB: A549 cells, IHC: human brain tissue,
Cited Applications: WB, IHC	
Species Specificity: human, mouse, rat	
Cited Species: human, rat, mouse, rabbit	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

KCNJ2, also named as HHBIRK1, HHIRK1, IRK1, KIR2.1, LQT7 and SQT3, belongs to the inward rectifier-type potassium channel family. KCNJ2 probably participates in establishing action potential waveform and excitability of neuronal and muscle tissues. Inward rectifier potassium channels are characterized by a greater tendency to allow potassium to flow into the cell rather than out of it. Their voltage dependence is regulated by the concentration of extracellular potassium; as external potassium is raised, the voltage range of the channel opening shifts to more positive voltages. The inward rectification is mainly due to the blockage of outward current by internal magnesium. KCNJ2 can be blocked by extracellular barium or cesium. Defects in KCNJ2 are the cause of long QT syndrome type 7 (LQT7). Defects in KCNJ2 are the cause of short QT syndrome type 3 (SQT3). The antibody recognizes the C-term of KCNJ2.

Notable Publications

Author	Pubmed ID	Journal	Application
Juanjuan Du	32954646	J Cell Mol Med	WB
Zhan Li	28546098	J Mol Cell Cardiol	WB
Weiwei Yu	35729093	Nat Commun	WB

Storage

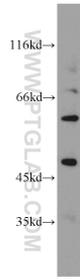
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

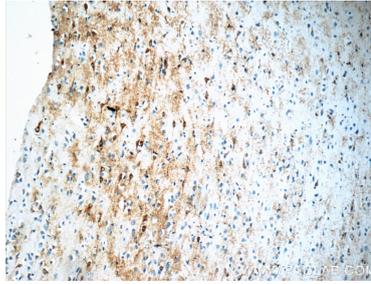
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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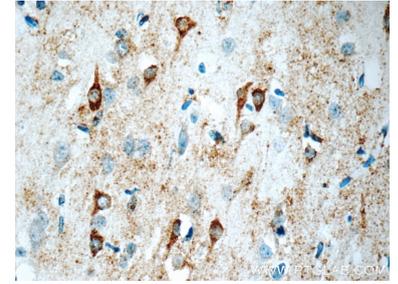
Selected Validation Data



A549 cells were subjected to SDS PAGE followed by western blot with 19965-1-AP (Kir2.1 antibody) at dilution of 1:200 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 19965-1-AP (Kir2.1 antibody at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 19965-1-AP (Kir2.1 antibody at dilution of 1:50.