For Research Use Only

KCNQ3 Polyclonal antibody

Catalog Number:19966-1-AP 2 Publications

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Basic Information

Catalog Number:
19966-1-AP

Size:
500 ug/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_004519

GeneID (NCBI):
3786

UNIPROT ID:
O43525

Full Name:
potassium voltage-gated channel, KQT-like subfamily, member 3

Calculated MW:
97 kDa

Observed MW:
90 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, pig

Cited Species:
mouse

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

Positive Controls:

WB : pig heart tissue,

IHC : mouse brain tissue,

Background Information

KCNQ3, also named as BFNC2, EBN2 and KV7.3, belongs to the potassium channel family and KQT subfamily. KCNQ3 is probably important in the regulation of neuronal excitability. Associates with KCNQ2 or KCNQ5, KCNQ3 forms a potassium channel with essentially identical properties to the channel underlying the native M-current, a slowly activating and deactivating potassium conductance which plays a critical role in determining the subthreshold electrical excitability of neurons as well as the responsiveness to synaptic inputs. Defects in KCNQ3 are the cause of benign neonatal epilepsy type 2 (EBN2). The antibody recognizes the C-term of KCNQ3.

Notable Publications

Author	Pubmed ID	Journal	Application
Alejandra Cabello-Arreola	32120974	Genes (Basel)	WB
Shicheng Jiang	38049972	Hippocampus	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

For technical support and original validation data for this product please contact:
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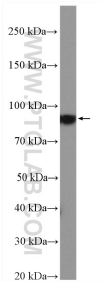
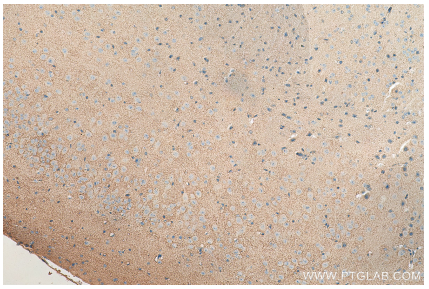
Selected Validation Data



pig heart tissue were subjected to SDS PAGE followed by western blot with 19966-1-AP (KCNQ3 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 19966-1-AP (KCNQ3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).