For Research Use Only

TREK1/KCNK2 Polyclonal antibody

Catalog Number:26807-1-AP

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
26807-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG25209

GenBank Accession Number:
BC101693

GeneID (NCBI):
3776

UNIPROT ID:
O95069

Full Name:
potassium channel, subfamily K, member 2

Calculated MW:
411 aa, 46 kDa

Observed MW:
40-50 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:2000
IHC: 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
human

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 : LNCaP cells, SH-SY5Y cells

IHC : mouse kidney tissue,

Background Information

The tandem of pore domains in a weak inward rectifying K+ channel (TWIK1, K2P1.1, or KCNK1) and TWIK-related K+channel 1 (TREK1, K2P 2.1, or KCNK2) are members of the two pore domain potassium (K2P) channel family, consisting of 15 channels that regulate the stabilization of resting membrane potential and cellular excitability by wielding background K+ leakage currents (PMID:12580339). TREK1/KCNK2 is sensitive to a wide range of physical and chemical cues. Its main role is to maintain the resting potential of the cell and whilst highly expressed in the nervous system, TREK1/KCNK2 is also expressed in the kidney, heart, lung and smooth muscle cells (PMID:31031627).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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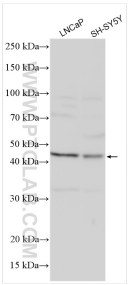
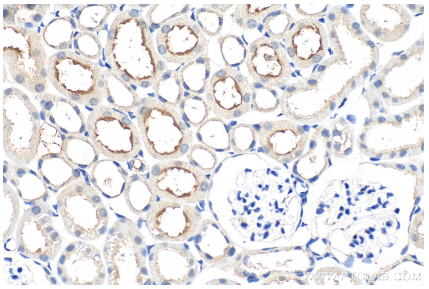
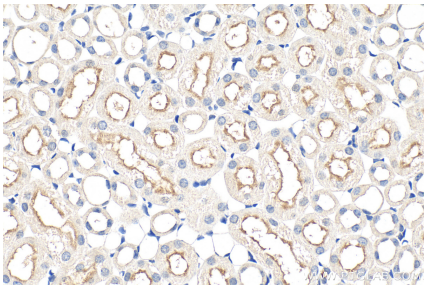
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 26807-1-AP (TREK1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 26807-1-AP (TREK1/KCNK2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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