

For Research Use Only

# Kv1.3 Polyclonal antibody

Catalog Number: 14079-1-AP

Featured Product

3 Publications



## Basic Information

**Catalog Number:**

14079-1-AP

**Size:**

600 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG5204

**GenBank Accession Number:**

BC035059

**GeneID (NCBI):**

3738

**UNIPROT ID:**

P22001

**Full Name:**

potassium voltage-gated channel, shaker-related subfamily, member 3

**Calculated MW:**

575 aa, 64 kDa

**Observed MW:**

52 kDa, 75 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IF 1:50-1:500

## Applications

**Tested Applications:**

IF, WB, ELISA

**Cited Applications:**

WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

**Positive Controls:**

WB : A549 cells, mouse thymus tissue

IF : Rat brain tissue,

## Background Information

Kv1.3 (also known as KCNA3, MK3, HGK5, HLK3, PCN3, HPCN3) contains six membrane-spanning domains with a shaker-type repeat in the fourth segment. It belongs to the delayed rectifier class, members of which allow nerve cells to efficiently repolarize following an action potential. It plays an essential role in T cell proliferation and activation. Kv1.3 channels are expressed in various tissues and cell types including brain, vascular smooth muscle cells and leucocytes. Malfunction of Kv1.3 can alter the immune response, elicit neurotoxic effects or impact on cancer growth (PMID: 24305723; 24133455). 14079-1-AP can detect two isoforms of Kv1.3 other than the canonical channel (60 kDa) : A longer isoform (70 kDa) and a truncated isoform (43 kDa).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yange Lang	32910509	FASEB J	WB
Xiaolong He	31320730	Cell Mol Immunol	WB
Wenjuan Liu	25550925	Int J Clin Exp Med	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:

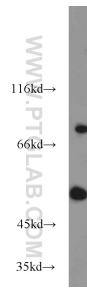
T: 4006900926

E: Proteintech-CN@ptglab.com

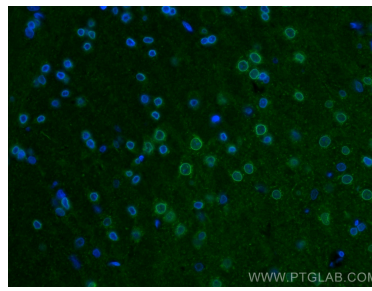
W: ptgcn.com

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## Selected Validation Data



A549 cells were subjected to SDS PAGE followed by western blot with 14079-1-AP (Kv1.3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed Rat brain tissue using Kv1.3 antibody (14079-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).