

Nur für Forschungszwecke

# Kv4.2 Polyklonaler Antikörper

Katalog-Nr.: 21298-1-AP

Vorgestelltes Produkt

3 Publikationen



## Allgemeine Informationen

Katalog-Nr.:  
21298-1-AP

Größe:  
150ul, Konzentration: 600 µg/ml von  
Nanodrop und 333 µg/ml durch die  
Bradford-Methode mit BSA als  
Standard;

Wirt:  
Kaninchen

Isotyp:  
IgG

Immunogen Katalognummer:  
AG15879

GenBank-Zugangsnummer:  
BC110449

GeneID (NCBI):  
3751

Vollständiger Name:  
potassium voltage-gated channel,  
Shal-related subfamily, member 2

Berechnete Masse:  
630 aa, 71 kDa

Beobachtete Masse:  
70-80 kDa

Reinigungsmethode:

Antigen-Affinitätsreinigung

Empfohlene Verdünnungen:

WB 1:500-1:2000

IHC 1:50-1:500

IF 1:50-1:500

## Anwendungen

Geprüfte Anwendungen:

IF, IHC, WB, ELISA

In Publikationen genannte Anwendungen:

IF, IHC, WB

Getestete Reaktivität:

Human, Maus, Ratte

Zitierte Arten:

Maus, Ratte

**Hinweis-IHC: Antigenmaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigenmaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

Positivkontrollen:

WB: A549-Zellen, DU 145-Zellen, HeLa-Zellen

IHC: Maushirngewebe,

IF: Maushirngewebe,

## Hintergrundinformationen

Voltage-gated potassium or Kv channels, specifically those mediating low threshold, rapidly inactivating Ito and IA currents, are known to regulate cardiac and neuronal membrane excitability, respectively (PMID: 12829703). Voltage-gated potassium channel subunit Kv4.2, encoded by the KCND2 gene, belongs to the potassium channel family and D (Shal) subfamily. It is a pore-forming alpha subunit of voltage-gated rapidly inactivating A-type potassium channels. Kv4.2 is highly expressed in the brain (PMID: 10551270). It is a major constituent of A-type potassium currents and a key regulator of neuronal membrane excitability (PMID: 22539834).

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Zhangchi Liu	36332480	Biochem Biophys Res Commun	WB
Durgesh Tiwari	31212067	Neurobiol Dis	
Jing Yang	35132967	JCI Insight	WB, IHC, IF

## Lagerung

Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

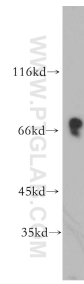
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

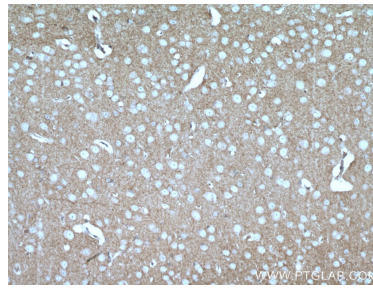
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

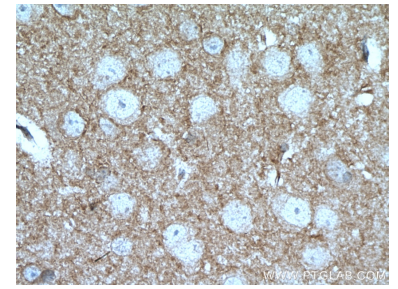
## Ausgewählte Validierungsdaten



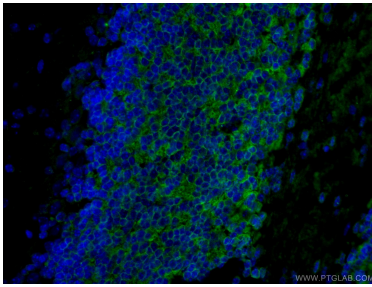
A549 cells were subjected to SDS PAGE followed by western blot with 21298-1-AP (Kv4.2 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



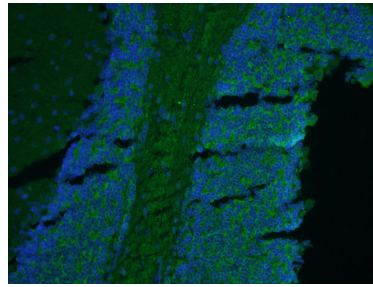
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21298-1-AP (Kv4.2 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21298-1-AP (Kv4.2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 21298-1-AP (Kv4.2 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 21298-1-AP (Kv4.2 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).