

For Research Use Only

# KCC2/SLC12A5 Polyclonal antibody

Catalog Number: 28724-1-AP

1 Publications



## Basic Information

**Catalog Number:**

28724-1-AP

**Size:**

150ul, Concentration: 600 ug/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG30203

**GenBank Accession Number:**

BC132670

**GeneID (NCBI):**

57468

**UNIPROT ID:**

Q9H2X9

**Full Name:**

solute carrier family 12 (potassium-chloride transporter), member 5

**Observed MW:**

130-150 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:6000

IHC 1:500-1:2000

IF-P 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, IF-P, ELISA

**Cited Applications:**

WB

**Species Specificity:**

Human, Mouse, Rat

**Cited Species:**

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: mouse brain tissue,

IHC: rat brain tissue, mouse brain tissue

IF-P: mouse cerebellum tissue,

## Background Information

KCC2, encoded by SLC12A5, is a neuron-specific K<sup>+</sup>-Cl<sup>-</sup> cotransporter that is essential for Cl<sup>-</sup> homeostasis and inhibitory synaptic transmission in brain. KCC2 is expressed at high levels in neurons throughout the nervous system. KCC2 deletion caused animal death. Alterations of KCC2 have been linked to neuropathic pain, temporal lobe epilepsy, and other diseases.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaolei Huang	38744853	Cell Death Dis	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

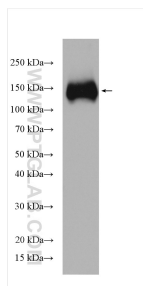
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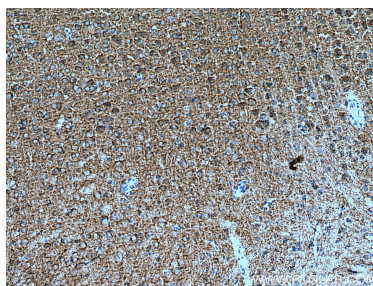
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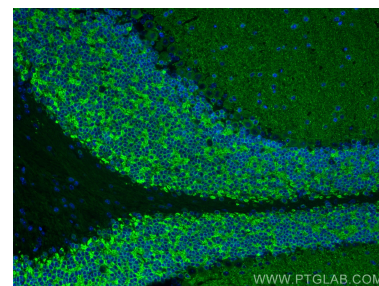
## Selected Validation Data



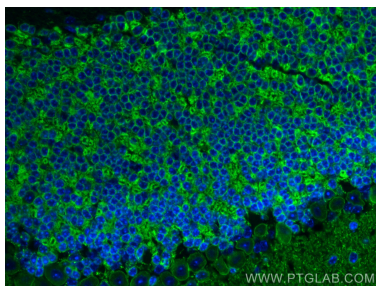
mouse brain tissue were subjected to SDS PAGE followed by western blot with 28724-1-AP (KCC2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 28724-1-AP (KCC2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using KCC2/SLC12A5 antibody (28724-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using KCC2/SLC12A5 antibody (28724-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).