

# IHC*easy* SLC12A5 Ready-To-Use IHC Kit

Catalog Number: **KHC1344**

## General Information

**Sample type:**  
FFPE tissue

**Cited sample type:**

**Reactivity:**  
Human, Mouse, Rat

**Cited Reactivity:**

**Assay type:**  
Immunohistochemistry

**Primary antibody type:**  
Rabbit Polyclonal

**Secondary antibody type:**  
Polymer-HRP-Goat anti-Rabbit

## Kit Component

Component	Size	Concentration
Antigen Retrieval Buffer	100 mL	50×
Washing Buffer	100 mL ×2	20×
Blocking Buffer	5 mL	RTU
Primary Antibody	5 mL	RTU
Secondary Antibody	5 mL	RTU
Chromogen Component A	0.2 mL	RTU
Chromogen Component B	4 mL	RTU
Signal Enhancer	5 mL	RTU
Counter Staining Reagent	5 mL	RTU
Mounting Media	5 mL	RTU
Control Slide	1 slide (Optional)	FFPE
Datasheet	1 Copy	
Manual	1 Copy	

## Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

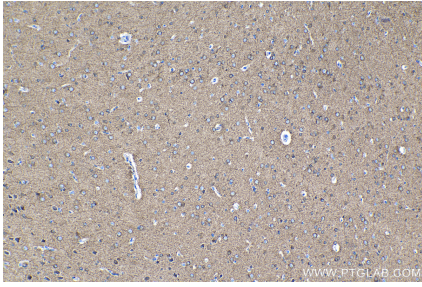
## Background

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.

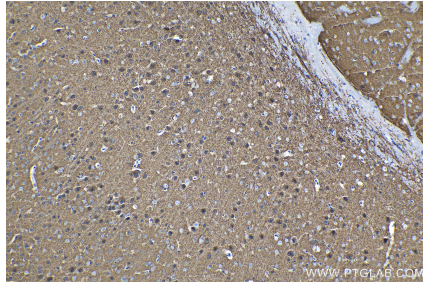
## Synonyms

hKCC2, K Cl cotransporter 2, KCC2, KCC2/SLC12A5, KIAA1176, Neuronal K Cl cotransporter, SLC12A5

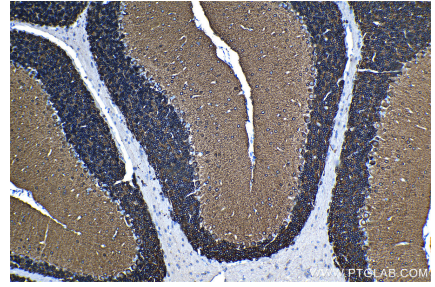
## Selected Validation Data



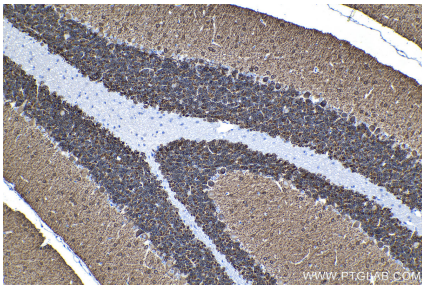
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using KHC1344 (SLC12A5 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using KHC1344 (SLC12A5 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using KHC1344 (SLC12A5 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using KHC1344 (SLC12A5 IHC Kit).