

For Research Use Only



# CoraLite® Plus 488-conjugated KCC2/SLC12A5-Specific Polyclonal antibody

Catalog Number: **CL488-19565**

## Basic Information

<b>Catalog Number:</b> CL488-19565	<b>GenBank Accession Number:</b> NM_020708	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 57468	<b>Recommended Dilutions:</b> IF-P 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9H2X9	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Isotype:</b> IgG	<b>Full Name:</b> solute carrier family 12 (potassium-chloride transporter), member 5	
	<b>Calculated MW:</b> 126 kDa	
	<b>Observed MW:</b> 130-150 kDa	

## Applications

<b>Tested Applications:</b> IF-P	<b>Positive Controls:</b> IF-P : mouse cerebellum tissue,
<b>Species Specificity:</b> human, mouse, rat	

## 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. This antibody can detect 130-150 kDa monomer and ~250 kDa dimer of KCC2 in brain lysate. (PMID: 23401525)

## Storage

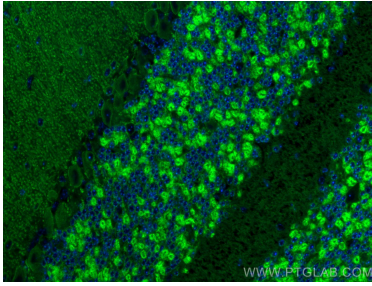
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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](mailto:proteintech@ptglab.com)  
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using CoraLite® Plus 488 KCC2/SLC12A5-Specific antibody (CL488-19565) at dilution of 1:200.