

**Anti-Potassium Chloride Cotransporter (KCC2) (Thr1007) Antibody**  
**Our Anti-Potassium Chloride Cotransporter (KCC2) (Thr1007) rabbit polyclonal**  
**phosphospecific primary**  
**Catalog # AN1524**

## Specification

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### Anti-Potassium Chloride Cotransporter (KCC2) (Thr1007) Antibody - Product Information

Primary Accession	<a href="#">Q63633</a>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>IgG</b>
Calculated MW	<b>126247</b>

### Anti-Potassium Chloride Cotransporter (KCC2) (Thr1007) Antibody - Additional Information

Gene ID **171373**

#### Other Names

Electroneutral potassium chloride cotransporter 2 antibody, Electroneutral potassium-chloride cotransporter 2 antibody, Erythroid K Cl cotransporter 2 antibody, Furosemide sensitive K Cl cotransporter antibody, hKCC2 antibody, K-Cl cotransporter 2 antibody, KCC 2 antibody, KCC2 antibody, KIAA1176 antibody, Neuronal K Cl cotransporter antibody, Neuronal K-Cl cotransporter antibody, Potassium Chloride Cotransporter antibody, Potassium chloride transporter 5 antibody, rKCC2 antibody, S12A5 antibody, S12A5\_HUMAN antibody, SLC12A5 antibody, Solute carrier family 12 (potassium chloride transporter) member 5 antibody, Solute carrier family 12 member 5 antibody

#### Target/Specificity

KCC2 is widely thought to be expressed exclusively in neurons where it is responsible for maintaining low intracellular chloride concentration to drive hyperpolarizing post-synaptic responses to the inhibitory neurotransmitters GABA and glycine (Lee et al., 2007). KCC2 is expressed in most adult neurons, and expression levels correlate well with the maturation state of neurons. N-ethylmaleimide (NEM) has been shown to increase phosphorylation of the Ser-940 residue, while decreasing phosphorylation of Thr-1007 residue. Dephosphorylation of residues Thr-906 and Thr-1007 correlates with increased KCC2 activity (Moss et al., 2017).

#### Format

Antigen Affinity Purified from Pooled Serum

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Anti-Potassium Chloride Cotransporter (KCC2) (Thr1007) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

#### Shipping

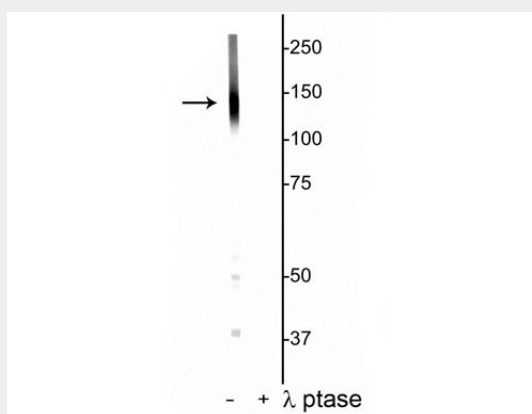
Blue Ice

## Anti-Potassium Chloride Cotransporter (KCC2) (Thr1007) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Potassium Chloride Cotransporter (KCC2) (Thr1007) Antibody - Images



Western blot of rat hippocampal lysate showing specific labeling of the ~135 kDa KCC2 protein phosphorylated at Thr1007 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is completely eliminated by blot treatment with lambda phosphatase ( $\lambda$ -Ptase, 1200 units for 30 min).

## Anti-Potassium Chloride Cotransporter (KCC2) (Thr1007) Antibody - Background

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