

# Product datasheet

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# ARG40886 anti-KCC2 / Potassium Chloride Cotransporter phospho (Thr1007) antibody

Package: 50 μl Store at: -20°C

## Summary

Product Description Rabbit Polyclonal antibody recognizes KCC2 / Potassium Chloride Cotransporter phospho (Thr1007)

Tested Reactivity Hu, Ms, Rat, Bov, NHuPrm, Pig, Sheep

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name KCC2 / Potassium Chloride Cotransporter

Species Mouse

Immunogen Phosphospecific peptide around Thr1007 of Mouse KCC2 / Potassium Chloride Cotransporter.

Conjugation Un-conjugated

Alternate Names K-Cl cotransporter 2; Electroneutral potassium-chloride cotransporter 2; Solute carrier family 12

member 5; hKCC2; KCC2; Neuronal K-Cl cotransporter

#### **Application Instructions**

Application table	Application	Dilution
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	135 kDa	

#### **Properties**

Form

Purification	Affinity purification with phospho-specific peptide and the non-phospho specific antibodies were

Annity particular with phospho-specific peptide and the non-phospho specific antibodies were

removed by chromatography using non-phosphopeptide.

Buffer 10 mM HEPES (pH 7.5), 150 mM NaCl, 50% Glycerol and 100 μg/ml BSA.

 ${\small \textbf{Stabilizer}} \hspace{1.5cm} 50\% \hspace{0.1cm} \textbf{Glycerol and 100} \hspace{0.1cm} \mu\text{g/ml BSA}$ 

Liquid

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Gene Symbol SLC12A5

Gene Full Name solute carrier family 12 (potassium/chloride transporter), member 5

Background K-Cl cotransporters are proteins that lower intracellular chloride concentrations below the

electrochemical equilibrium potential. The protein encoded by this gene is an integral membrane K-Cl cotransporter that can function in either a net efflux or influx pathway, depending on the chemical concentration gradients of potassium and chloride. The encoded protein can act as a homomultimer, or as a heteromultimer with other K-Cl cotransporters, to maintain chloride homeostasis in neurons. Alternative splicing results in two transcript variants encoding different isoforms. [provided by RefSeq,

Sep 2008]

**Function** Mediates electroneutral potassium-chloride cotransport in mature neurons. Transport occurs under

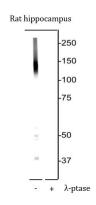
isotonic conditions, but is activated 20-fold by cell swelling. Important for CI(-) homeostasis in neurons.

[UniProt]

Calculated Mw 126 kDa

Cellular Localization Membrane; Multi-pass membrane protein. [UniProt]

## **Images**



ARG40886 anti-KCC2 / Potassium Chloride Cotransporter phospho (Thr1007) antibody WB image

Western blot: Rat hippocampus untreated or treated with lambda phosphatase (1200 units for 30 min). The blots were stained with ARG40886 anti-KCC2 / Potassium Chloride Cotransporter phospho (Thr1007) antibody.