

**Goat Anti-KCC1 / SLC12A4 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1582a****Specification**

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**Goat Anti-KCC1 / SLC12A4 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q9UP95</a>
Other Accession	<a href="#">NP_005063</a> , <a href="#">6560</a> , <a href="#">20498 (mouse)</a> , <a href="#">29501 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	120650

**Goat Anti-KCC1 / SLC12A4 Antibody - Additional Information****Gene ID** 6560**Other Names**

Solute carrier family 12 member 4, Electroneutral potassium-chloride cotransporter 1, Erythroid K-Cl cotransporter 1, hKCC1, SLC12A4, KCC1

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**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**

Goat Anti-KCC1 / SLC12A4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-KCC1 / SLC12A4 Antibody - Protein Information****Name** SLC12A4 ([HGNC:10913](#))**Function**

Mediates electroneutral potassium-chloride cotransport when activated by cell swelling. May contribute to cell volume homeostasis in single cells (PubMed:<a href="http://www.uniprot.org/citations/10913127" target="\_blank">10913127</a>, PubMed:<a href="http://www.uniprot.org/citations/34031912" target="\_blank">34031912</a>). May be involved in the regulation of basolateral Cl(-) exit in NaCl absorbing epithelia (By similarity).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**Tissue Location**

Ubiquitous (PubMed:8663127, PubMed:9516379). Levels are much higher in erythrocytes from patients with Hb SC and Hb SS compared to normal AA erythrocytes (PubMed:9516379). This may contribute to red blood cell dehydration and to the manifestation of sickle cell disease by increasing the intracellular concentration of HbS (PubMed:9516379).

**Goat Anti-KCC1 / SLC12A4 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](#)

**Goat Anti-KCC1 / SLC12A4 Antibody - Images**

AF1582a (0.3 µg/ml) staining of Human Heart lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**Goat Anti-KCC1 / SLC12A4 Antibody - References**

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Physiogenomic analysis of statin-treated patients: domain-specific counter effects within the ACACB gene on low-density lipoprotein cholesterol? Ruaño G, et al. Pharmacogenomics, 2010 Jul. PMID 20602615.

Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.

The up-regulation of KCC1 gene expression in cervical cancer cells by IGF-II through the ERK1/2MAPK and PI3K/AKT pathways and its significance. Zhang S, et al. Eur J Gynaecol Oncol, 2009. PMID 19317253.

Rare independent mutations in renal salt handling genes contribute to blood pressure variation. Ji

W, et al. Nat Genet, 2008 May. PMID 18391953.