

Goat Anti-KCC1 / SLC12A4 Antibody

Peptide-affinity purified goat antibody Catalog # AF1582a

Specification

Goat Anti-KCC1 / SLC12A4 Antibody - Product Information

Application WB
Primary Accession O9UP95

Other Accession NP 005063, 6560, 20498 (mouse), 29501 (rat)

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 lgG/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 (<u>HGNC:10913</u>)

Function

Mediates electroneutral potassium-chloride cotransport when activated by cell swelling. May contribute to cell volume homeostasis in single cells (PubMed:10913127, PubMed:34031912). 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

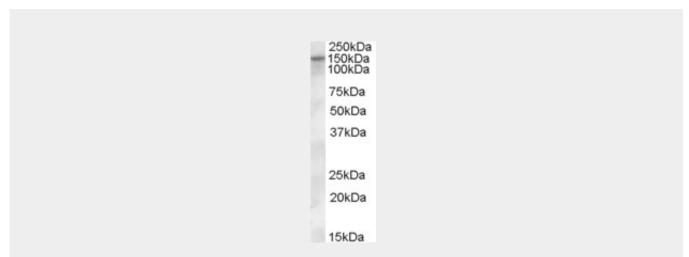
Ubiquitous (PubMed:8663127, PubMed:9516379). Levels are much higher in erythrocytes from patients with Hb SC and Hb SS compared to normal AA erythrocytes (PubMed:9516379). This may contribute to red blood cell dehydration and to the manifestation of sickle cell disease by increasing the intracellular 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
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-KCC1 / SLC12A4 Antibody - Images



AF1582a (0.3 μ g/ml) staining of Human Heart lysate (35 μ g 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 Thiazolinedinedione-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.

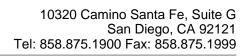
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Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.

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.

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