

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

Goat Anti-KCC1 / SLC12A4 Antibody - Product Information

Application	WB
Primary Accession	Q9UP95
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 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: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](#)
- [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 Thiazolidinedione-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

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