

SLC12A1/NKCC2 Rabbit mAb

Catalog # AP75812

Product Information

Application	WB, FC
Primary Accession	Q13621
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	121450

Additional Information

Gene ID	6557
Other Names	SLC12A1
Dilution	WB~~1:1000-1:5000 FC~~1:100-1:500
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

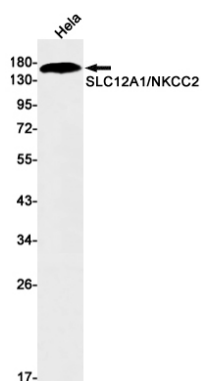
Protein Information

Name	SLC12A1 (HGNC:10910)
Function	Renal sodium, potassium and chloride non-electrogenic ion symporter that mediates the transepithelial NaCl reabsorption in the thick ascending limb and plays an essential role in the urinary concentration and volume regulation (PubMed: 21321328). It can substitute NH4(+) for K(+), enabling NH4(+) apical transmembrane transport in the medullary thick ascending limb (MTAL). This function is crucial for maintaining ammonium homeostasis by the kidney, particularly during metabolic acidosis (By similarity).
Cellular Location	Apical cell membrane; Multi-pass membrane protein
Tissue Location	Kidney; localizes to the thick ascending limbs (at protein level).

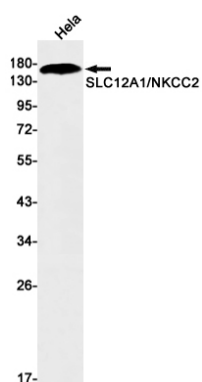
Background

Electrically silent transporter system. Mediates sodium and chloride reabsorption. Plays a vital role in the regulation of ionic balance and cell volume.

Images



Western blot analysis of SLC12A1/NKCC2 in HeLa lysates using SLC12A1 antibody.



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