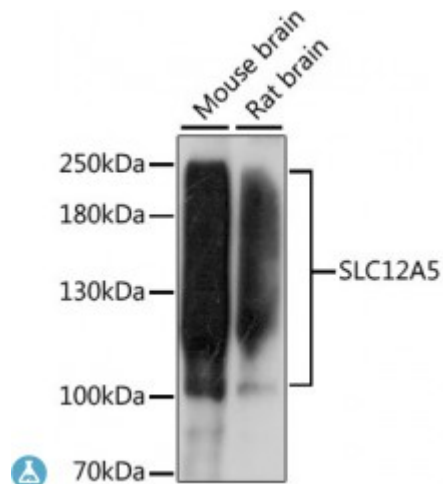


Anti-SLC12A5 Antibody



Description

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.

Model	STJ117681
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 945-1025 of human SLC12A5 (NP_001128243.1).
Gene ID	57468
Gene Symbol	SLC12A5
Dilution range	WB 1:200 - 1:2000
Tissue Specificity	Brain specific, Detected in neuronal cells
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Solute carrier family 12 member 5 Electroneutral potassium-chloride cotransporter 2 K-Cl cotransporter 2 hKCC2 Neuronal K-Cl cotransporter

Molecular Weight	126.184 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:13818OMIM:606726Reactome:R-HSA-426117
Alternative Names	Solute carrier family 12 member 5 Electroneutral potassium-chloride cotransporter 2 K-Cl cotransporter 2 hKCC2 Neuronal K-Cl cotransporter
Function	Mediates electroneutral potassium-chloride cotransport in mature neurons and is required for neuronal Cl(-) homeostasis, As major extruder of intracellular chloride, it establishes the low neuronal Cl(-) levels required for chloride influx after binding of GABA-A and glycine to their receptors, with subsequent hyperpolarization and neuronal inhibition , Involved in the regulation of dendritic spine formation and maturation ,
Cellular Localization	Membrane