

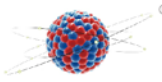
Anti- SLC12A1 / NKCC2 Antibody

NH-R-64-26

Product Type: Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity: Human, Mouse, Rat
Applications: IF-Tissue Clearing
Clone number: JE64-26

Description:	The Na-K-2Cl cotransporter (NKCC2) is a sodium-potassium-chloride cotransporter. It is mainly expressed on the luminal membrane of renal epithelial cells of the thick ascending limb of Henle's loop (TALH) and mediates the majority of NaCl resorption and concentration of urine. NKCC2 is the target for several diuretic drugs, such as bumetanide, and is involved in the pathogenesis of hypertension. Mutations in the NKCC2-encoding gene, SLC12A1, causes Bartter's syndrome, which is featured by impaired salt absorption in the TALH, hypokalemic metabolic alkalosis, and hypercalciuria. Recently, NKCC2 was reported to be expressed in the brain hypothalamo-neurohypophyseal system (HNS) and upregulated upon osmotic stress.
Immunogen:	Recombinant protein within Human SLC12A1 / NKCC2 aa 593-813 / 1,099.
Positive control:	Mouse kidney
Subcellular location:	Cell membrane.
Recommended Dilutions:	
IF-Tissue Clearing	1:50
Adaptive Clearing kit	Tissue clearing kit (Hydrophilic) (Cat#:NH-CR-210701)
Storage Buffer:	1* TBS (pH 7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Storage Instruction:	Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.
Purity:	Protein A affinity purified





Images

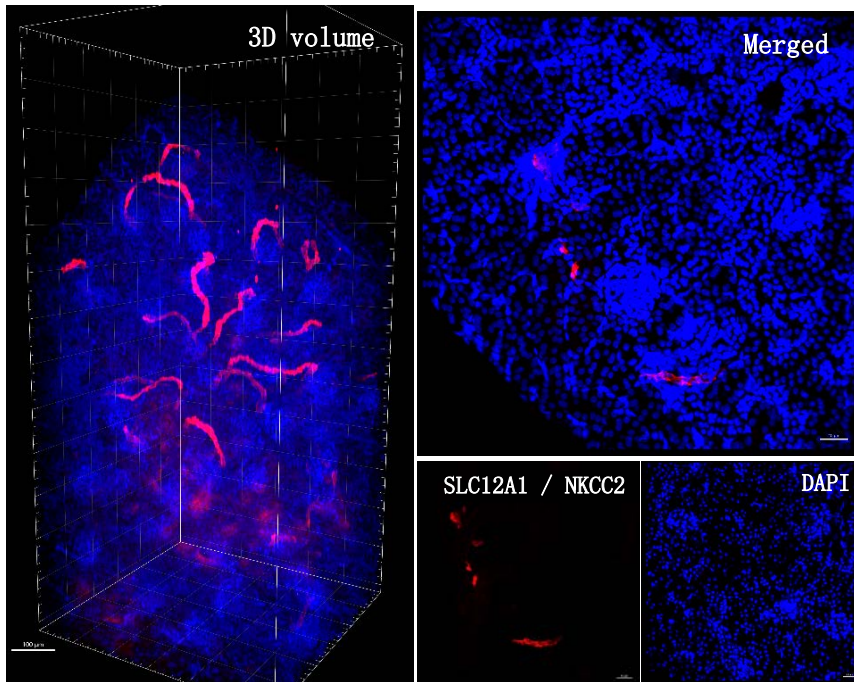


Fig1: Immunofluorescence analysis of fresh mouse kidney tissue labeling SLC12A1 / NKCC2 (NH-R-64-26) and DAPI at 1/50 、 1/100 dilution respectively.

The kidney of mouse was transparented with Tissue Clearing Kit(Hydrophilic) (Cat#:NH-CR-210701), the tissues were blocked for 4 hours at 4°C, and then probed with antibodies (NH-R-64-26, 1/50;DAPI, 1:100) for 4 days at room temperature, after washing with 10% PBST for 20 minutes, wash with 1x PBS for 3 times for 2 hours each time. Three dimensional imaging acquisition was performed with Nuohai LS18.

