

DESCRIPTION

Species Reactivity	Human
Specificity	Stains NKCC1/SLC12A2 transfectants but not irrelevant transfectants in flow cytometry.
Source	Monoclonal Mouse IgG _{2B} Clone # 915911
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human NKCC1/SLC12A2 Met1-Ser1212 Accession # P55011
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	HEK293 human embryonic kidney cell line transfected with human NKCC1/SLC12A2 and eGFP

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Solute Carrier, family 12 (potassium/chloride transporter), member 2 (SLC12A2) encodes NKCC1, which mediates sodium and chloride transport and reabsorption. It is a membrane protein that is important in maintaining proper ionic balance and cell volume. In contrast to the renal-specific sodium/potassium/chloride cotransporter SLC12A1, SLC12A2 is expressed in many tissues, including the basolateral membrane of secretory epithelia. It is phosphorylated in response to DNA damage. Three transcript variants encoding two different isoforms have been found for SLC12A2.

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