

DESCRIPTION

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| 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 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

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| 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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