

Product datasheet

# Anti-SLC12A1/NKCC2 antibody [EPR11842] - BSA and Azide free ab213653

Recombinant RabMAb

Overview

<b>Product name</b>	Anti-SLC12A1/NKCC2 antibody [EPR11842] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR11842] to SLC12A1/NKCC2 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Specificity</b>	The homology between SLC12A1/NKCC2 and SLC12A2 is 67%, so this antibody may cross react with SLC12A2. We haven't performed any laboratory testing about this.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, WB <b>Unsuitable for:</b> ICC/IF, IHC-P or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment within Human SLC12A1/NKCC2. The exact sequence is proprietary. Database link: <a href="#">Q13621</a>
<b>Positive control</b>	293T, Human fetal kidney, K562 and WI-38 cell lysates; permeabilized K562 cells.
<b>General notes</b>	<p>ab213653 is the carrier-free version of <a href="#">ab171747</a>. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our <a href="#">carrier-free formats</a> are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</p> <p>Use our <a href="#">conjugation kits</a> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>ab213653 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.</p> <p><i>Maxpar® is a trademark of Fluidigm Canada Inc.</i></p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb® patents</a>.</p> <p>This product is a <a href="#">recombinant rabbit monoclonal antibody</a>.</p>

Properties

**Form** Liquid

<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Constituent: PBS
<b>Purity</b>	Affinity purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR11842
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab213653** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 121 kDa.

**Application notes** Is unsuitable for ICC/IF, IHC-P or IP.

## Target

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

**Tissue specificity** Kidney specific.

**Involvement in disease** Defects in SLC12A1 are the cause of Bartter syndrome type 1 (BS1) [MIM:601678]. BS refers to a group of autosomal recessive disorders characterized by impaired salt reabsorption in the thick ascending loop of Henle with pronounced salt wasting, hypokalemic metabolic alkalosis, and varying degrees of hypercalciuria. BS1 is a life-threatening condition beginning in utero, with marked fetal polyuria that leads to polyhydramnios and premature delivery. Another hallmark of BS1 is a marked hypercalciuria and, as a secondary consequence, the development of nephrocalcinosis and osteopenia.

**Sequence similarities** Belongs to the SLC12A transporter family.

**Cellular localization** Membrane.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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