

**DESCRIPTION**

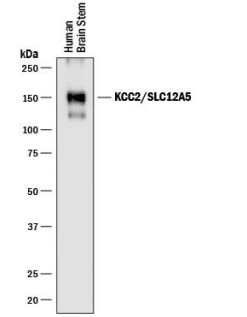
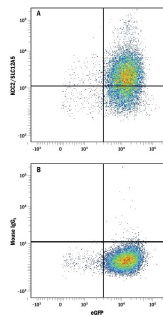
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human SLC12A5 in ELISAs and Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 905705
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human SLC12A5 Accession # Q9H2X9
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.5 µg/mL	See Below
<b>Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

**DATA**

<p><b>Western Blot</b></p> 	<p><b>Detection of Human KCC2/SLC12A5 by Western Blot.</b> Western blot shows lysates of human brain stem tissue. PVDF membrane was probed with 0.5 µg/mL of Mouse Anti-Human KCC2/SLC12A5 Monoclonal Antibody (Catalog # MAB8369) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for KCC2/SLC12A5 at approximately 150 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Flow Cytometry</b></p>  <p><b>Detection of KCC2/SLC12A5 in HEK293 Human Cell Line Transfected with Human KCC2/SLC12A5 and eGFP by Flow Cytometry.</b> HEK293 human embryonic kidney cell line transfected with human KCC2/SLC12A5 and eGFP was stained with either (A) Mouse Anti-Human KCC2/SLC12A5 Monoclonal Antibody (Catalog # MAB8369) or (B) Mouse IgG<sub>1</sub> Isotype Control (Catalog # MAB002) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B).</p>
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**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

Solute Carrier, family 12 (potassium/chloride transporter), member 5 (SLC12A5) encodes KCC2, a multi-pass co-transporter for K<sup>+</sup> and Cl<sup>-</sup>. KCC2/SLC12A5 is expressed on neurons, and is dysregulated in schizophrenia, spasticity, and affective disorders.