

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human SLC14A1 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 888418
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human SLC14A1 Accession # Q13336
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Human red blood cells and HEK293 human embryonic kidney cell line transfected with human SLC14A1 and eGFP

**PREPARATION AND STORAGE**

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

**BACKGROUND**

Urea transporter 1, designated Solute Carrier family 14 member 1 (SLC14A1) is a 43-54 kDa multipass urea transporter mainly expressed in erythrocytes, but also found in kidney, mesenchymal stem cells, and some carcinomas. It contains an epitope identified as the Kidd (JK) blood group antigen. The antigenic forms differ at only one amino acid (aa); Asp280 represents Jk(a) and Asn280 represents Jk(b). SLC14A1 Isoform 2 (445 aa) contains an extended N-terminus as compared to Isoform 1 (389 aa). Human SLC14A1 shares 83% and 81% aa sequence identity with mouse and rat SLC14A1, respectively.

**PRODUCT SPECIFIC NOTICES**

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