

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SLC14A1 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 888418
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human SLC14A1 Accession # Q13336
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	Human red blood cells and HEK293 human embryonic kidney cell line transfected with human SLC14A1 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. ● 12 months from date of receipt, 2 to 8 °C as supplied.

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.

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