

Rabbit anti-Mouse, Rat SLC14A1/UTE Polyclonal Antibody | anti-Slc14a1 antibody

Anti-SLC14A1/UTE Antibody

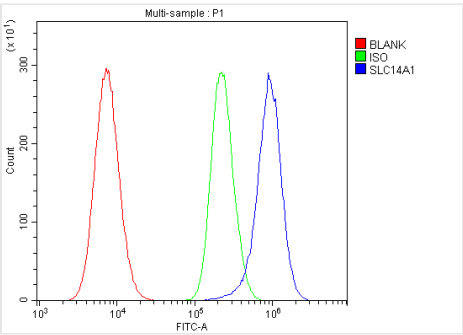
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125734	Rabbit	Mouse, Rat	Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

SLC14A1/UTE; Polyclonal Antibody; Anti-SLC14A1/UTE Antibody; Slc14a1; Urea transporter 1; Solute carrier family 14 member 1; Urea transporter B; UT-B; Urea transporter; erythrocyte; solute carrier family 14; anti-Slc14a1 antibody

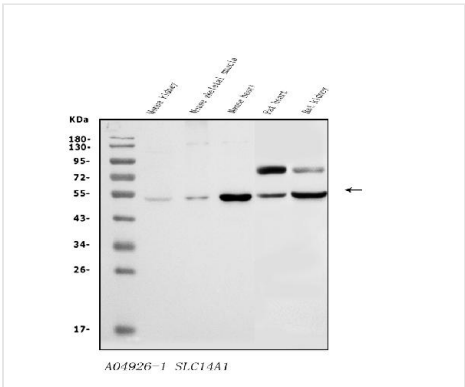
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for SLC14A1/UTE detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-Slc14a1 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of mouse SLC14A1/UTE (DMKEFANWLKDKPVVLQFMD).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HEPA1-6 cells using anti-SLC14A1/UTE antibody (AAA125734).Overlay histogram showing HEPA1-6 cells stained with AAA125734 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SLC14A1/UTE Antibody (AAA125734, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of SLC14A1/UTE using anti-SLC14A1/UTE antibody (AAA125734).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: mouse kidney tissue lysatesLane 2: mouse skeletal muscle tissue lysatesLane 3: mouse heart tissue lysatesLane 4: rat heart tissue lysatesLane 5: rat kidney tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-SLC14A1/UTE antigen affinity purified polyclonal antibody (Catalog # AAA125734) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SLC14A1/UTE at approximately 48-50KD. The expected band size for SLC14A1/UTE is at 42KD.

ADDITIONAL INFORMATION

Related Product Information for anti-Slc14a1 antibody	Urea transporter 1 is a protein that in humans is encoded by the SLC14A1 gene. The SLC14A1 codes for a urea transporter (UTB) that is expressed in erythrocytes and kidney. SLC14A2 and SLC14A1 constitute solute carrier family 14. UTB proteins constitute the Kidd antigen system.
References	- Gross, M. B. Personal Communication. Baltimore, Md. 2/16/2016. - Lucien, N., Chiaroni, J., Cartron, J. -P., Bailly, P. Partial deletion in the JK locus causing a Jk(null) phenotype. Blood 99: 1079-1081, 2002. - Lucien, N., Sidoux-Walter, F., Olives, B., Moulds, J., Le Pennec, P. -Y., Cartron, J. -P., Bailly, P. Characterization of the gene encoding the human Kidd blood group/urea transporter protein: evidence for splice site mutations in Jk-null individuals. J. Biol. Chem. 273: 12973-12980, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	283945614
NCBI GeneID	108052
NCBI Accession #	NP_001164481.1
NCBI GenBank Nucleotide #	NM_001171010.1
UniProt Accession #	Q8VHL0; Q3U542; Q497G1; Q5RJG2; Q6PDP4; Q9CZX3
Molecular Weight	42,126 Da
NCBI Official Full Name	urea transporter 1 isoform a
NCBI Official Synonym Full Names	solute carrier family 14 (urea transporter), member 1
NCBI Official Symbol	Slc14a1
NCBI Official Synonym Symbols	UT-B; Utb1; 2610507K20Rik; 3021401A05Rik
NCBI Protein Information	urea transporter 1; urea transporter B; urea transporter, erythrocyte; solute carrier family 14 member 1

UniProt Protein Name	Urea transporter 1
UniProt Gene Name	Slc14a1
UniProt Synonym Gene Names	UT-B
UniProt Entry Name	UT1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/slc14a1-ute-antibody-flow-cytometry-western-blot-elisa/125734>