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SLC14A1 Rabbit pAb

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Catalog # AP58698

Product Information

Application	WB
Primary Accession	Q13336
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit, Chicken, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42528
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SLC14A1/RACH1
Epitope Specificity	151-250/389
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein. Cell membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	SLC14A1 is one of two major mammalian urea transporters, which play a critical role in the urine-concentrating mechanism. Their abundance is regulated by vasopressin, glucocorticoids, and mineralocorticoids. These regulatory mechanisms may be important in disease states such as diabetes.

Additional Information

Gene ID	6563
Other Names	Urea transporter 1, Solute carrier family 14 member 1, Urea transporter, erythrocyte, SLC14A1, HUT11, JK, RACH1, UT1, UTE
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SLC14A1
Synonyms	HUT11, JK, RACH1, UT1, UTE

Function	Mediates the transport of urea driven by a concentration gradient across the cell membrane of erythrocytes (PubMed:10514515, PubMed:7797558, PubMed:7989337, PubMed:8997401). Also mediates the transport of urea across the cell membrane of the renal inner medullary collecting duct which is critical to the urinary concentrating mechanism (By similarity). Facilitates water transport in erythrocytes (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:Q8VHL0}; Multi-pass membrane protein. Note=Restricted to the basolateral membrane in various portions of the urothelium. {ECO:0000250|UniProtKB:Q8VHL0}
Tissue Location	Detected in erythrocytes (at protein level) (PubMed:23219802). Expressed in spleen erythroblasts and tumoral kidney (PubMed:7989337).

Background

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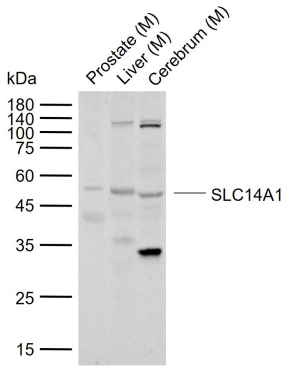
Images



Sample:
Lane 1: Mouse Prostate tissue lysates
Lane 2: Mouse Liver tissue lysates
Lane 3: Mouse Cerebrum tissue lysates
Primary: Anti-SLC14A1 (AP58698) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 43 kDa
Observed band size: 48 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.