

Datasheet for ABIN2486302

**anti-Solute Carrier Family 14 (Urea Transporter, Kidney)
Member 2 (SLC14A2) (AA 911-929) antibody (Atto 594)**[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	Solute Carrier Family 14 (Urea Transporter, Kidney) Member 2 (SLC14A2)
Binding Specificity:	AA 911-929
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Atto 594
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Immunohistochemistry (IHC)

Product Details

Immunogen:	Produced against a synthetic peptide mapped to the C-terminal tail (amino acids 911-929) of rat UT-A1 (antibody designation L194)
Specificity:	Isoform 1 and isoform 2 are expressed in the inner medulla of the kidney. Isoform 3 and isoform 4 are expressed in both the inner and outer renal medulla. Detects ~97 and 127 kDa.
Cross-Reactivity:	Mouse, Rat
Purification:	Peptide Affinity Purified

Target Details

Target:	Solute Carrier Family 14 (Urea Transporter, Kidney) Member 2 (SLC14A2)
Alternative Name:	UT-A1 (SLC14A2 Products)

Target Details

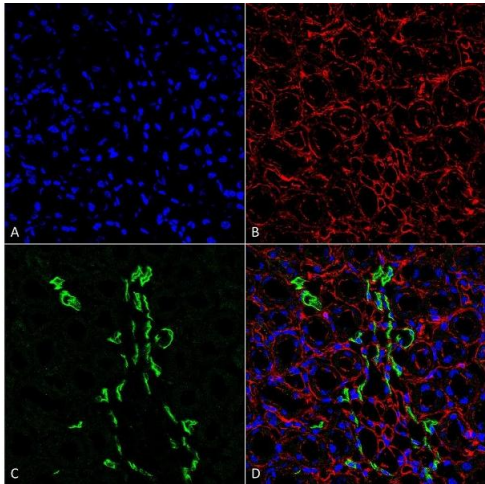
Background:	UT-A1, a kidney-specific urea transporter is expressed in the renal collecting duct where it mediates trans-epithelial urea transport and is a target for regulation by vasopressin. Urea movement out of the collecting duct in the inner medulla of the kidney allows accumulation of urea in the medullary interstitium, thereby allowing maximum water reabsorption from the collecting ducts. (The antibody also recognizes a second protein from the UT-A gene driven by transcription from an alternative promoter and expressed in the thin descending limb of Henle, viz. UT-A2) (1, 2).
Gene ID:	54302
NCBI Accession:	NP_062220
UniProt:	Q62668
Pathways:	Response to Water Deprivation

Application Details

Application Notes:	<ul style="list-style-type: none">• WB (1:1000)• IHC (1:25)• optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN2486302 was sufficient for detection of UT-A1 in 20 µg of rat kidney tissue lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

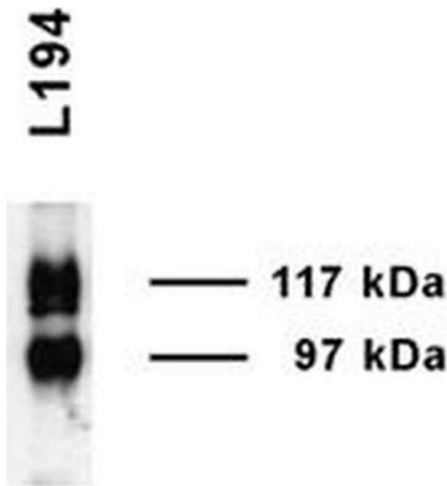
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C



Immunohistochemistry

Image 1. Immunohistochemistry analysis using Rabbit Anti-UT-A1 Polyclonal Antibody (ABIN2486302). Tissue: kidney tissue. Species: Rat. Fixation: Formalin Fixed Paraffin-Embedded. Primary Antibody: Rabbit Anti-UT-A1 Polyclonal Antibody (ABIN2486302) at 1:25 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit IgG: Alexa Fluor 488. Counterstain: Actin-binding Phalloidin-Alexa Fluor 633, DAPI (blue) nuclear stain. Magnification: 63X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Alex Fluor 633 F-Actin stain. (C)UT-A1 Antibody (D) Composite.



Western Blotting

Image 2. Western blot analysis of Rat Inner medulla showing detection of UT-A1 protein using Rabbit Anti-UT-A1 Polyclonal Antibody . Primary Antibody: Rabbit Anti-UT-A1 Polyclonal Antibody at 1:1000.