10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SLC14A2 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22353a

Product Information

Application	WB, IHC-P-Leica, E
Primary Accession	Q15849
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB57903
Calculated MW	101209

Additional Information

Gene ID	8170
Other Names	Urea transporter 2, Solute carrier family 14 member 2, Urea transporter, kidney, SLC14A2, HUT2, UT2
Target/Specificity	This SLC14A2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 42-76 amino acids from the human region of human SLC14A2.
Dilution	WB~~1:500 IHC-P-Leica~~1:500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SLC14A2 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC14A2
Synonyms	HUT2, UT2
Function	[Isoform 1]: Mediates the transport of urea driven by a concentration gradient across the cell membrane of the renal inner medullary collecting duct which is critical to the urinary concentrating mechanism.

Cellular Location	[Isoform 1]: Apical cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein
Tissue Location	[Isoform 1]: Epressed in the inner medulla of the kidney (at protein level).

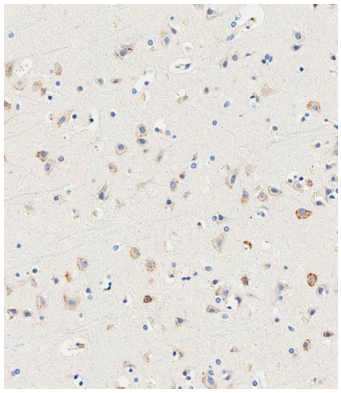
Background

Specialized low-affinity vasopressin-regulated urea transporter. Mediates rapid transepithelial urea transport across the inner medullary collecting duct and plays a major role in the urinary concentrating mechanism.

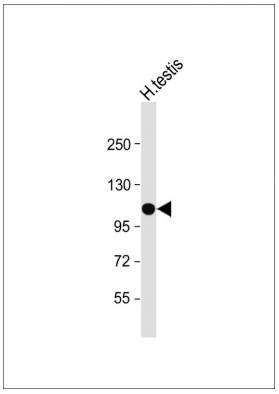
References

Olives B.,et al.FEBS Lett. 386:156-160(1996).
Bagnasco S.M.,et al.Am. J. Physiol. 281:F400-F406(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Nusbaum C.,et al.Nature 437:551-555(2005).
Mistry A.C.,et al.J. Biol. Chem. 282:30097-30106(2007).

Images

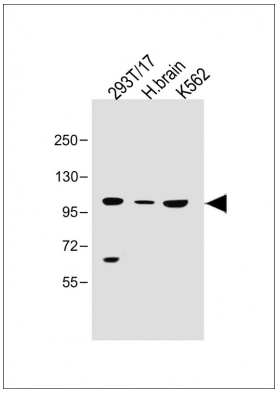


Immunohistochemical analysis of paraffin-embedded human brain tissue using AP22353a performed on the Leica® BOND RXm. Samples were incubated with primary antibody(1/500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Anti-SLC14A2 Antibody (N-Term) at 1:500 dilution + Human testis lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 101 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

All lanes : Anti-SLC14A2 Antibody (N-Term) at 1:500 dilution Lane 1: 293T/17 whole cell lysate Lane 2: Human brain lysate Lane 3: K562 whole cell lysate 293T/17 whole cell lysate at 30 µg per lane. H. brain lysate at 50 µg per lane. K562 whole cell lysate at 40 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 101 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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