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# SLC14A2 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22353a

## Product Information

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| **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

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| **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

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| **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. |

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| **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). |

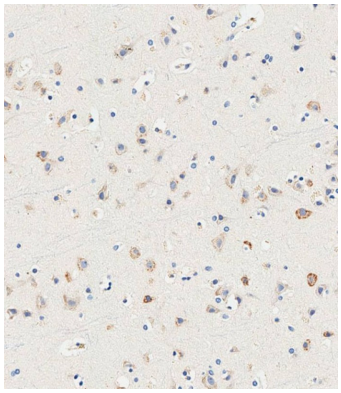
## Background

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.

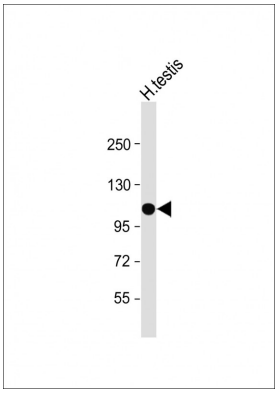
## References


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

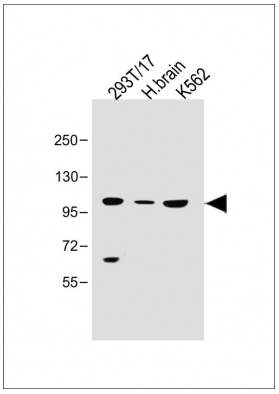


Immunohistochemical analysis of paraffin-embedded human brain tissue using AP22353a performed on the Leica® BOND RXm. Samples were incubated with primary antibody(1/500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.




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'.