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# SLC5A10/SGLT5 Rabbit pAb

SLC5A10/SGLT5 Rabbit pAb
Catalog # AP57825

## Product Information

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|---|---|
| **Application** | WB |
| **Primary Accession** | A0PJK1 |
| **Reactivity** | Human, Mouse |
| **Predicted** | Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 64342 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human SLC5A10/SGLT5 |
| **Epitope Specificity** | 181-280/596 |
| **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; Multipass membrane protein. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | This gene is a member of the sodium/glucose transporter family. Members of this family are sodium-dependent transporters and can be divided into two subfamilies based on sequence homology, one that co-transports sugars and the second that transports molecules such as ascorbate, choline, iodide, lipoate, monocaroboxylates, and pantothenate. The protein encoded by this gene has the highest affinity for mannose and has been reported to be most highly expressed in the kidney. This protein may function as a kidney-specific, sodium-dependent mannose and fructose co-transporter. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Jul 2012] |

## Additional Information

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| **Gene ID** | 125206 |
| **Other Names** | Sodium/mannose cotransporter SLC5A10, Sodium/glucose cotransporter 5, Na(+)/glucose cotransporter 5, Solute carrier family 5 member 10, SLC5A10, SGLT5 {ECO:0000303\|PubMed:24573086} |
| **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

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|---|---|
| **Name** | SLC5A10 |
| **Synonyms** | SGLT5 {ECO:0000303\|PubMed:24573086} |
| **Function** | [Isoform 1]: Electrogenic Na+-coupled sugar symporter that actively transports D-mannose or D-fructose at the plasma membrane, with a Na+ to sugar coupling ratio of 1:1. Transporter activity is driven by a transmembrane Na+ electrochemical gradient set by the Na+/K+ pump. Exclusively recognizes sugar substrates having a pyranose ring with an axial hydroxyl group on carbon 2 (PubMed:22212718, PubMed:23451068, PubMed:24573086). Has likely evolved to enable renal reabsorption of D-mannose, an important constituent of oligosaccharide chains of glycoproteins. Contributes to dietary D-fructose reabsorption from glomerular filtrate across the brush border of the kidney (PubMed:22212718, PubMed:23451068). |
| **Cellular Location** | Apical cell membrane {ECO:0000250\|UniProtKB:Q5SWY8}; Multi-pass membrane protein |
| **Tissue Location** | Predominantly expressed at high levels in kidney. Very low expression is detected in testes [Isoform 2]: The most abundant isoform expressed in kidney. [Isoform 5]: Expressed in kidney. |

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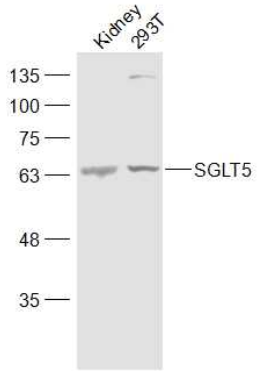
## Images




Sample:
Kidney (Mouse) Tissue Lysate at 40 ug
293T(Human) Cell Lysate at 30 ug
Primary: Anti-SGLT5 (AP57825) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 64 kD
Observed band size: 64 kD