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**[ Primary Antibody ]**

# Rabbit Anti-Slc4a7 antibody

**Catalog Number: SL1530R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | Slc4a7 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from rat Slc4a7 isoform 2: 1-100/1254 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | ELISA=1:5000-10000<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | (predicted: Human, Mouse, Rat) |
| **Predicted MW.:** | 140kDa |
| **Subcellular Location:** | The cell membrane |
| **Background:** | Electroneutral sodium- and bicarbonate-dependent cotransporter with a Na(+):HCO3(-) 1:1 stoichiometry. Regulates intracellular pH and may play a role in bicarbonate salvage in secretory epithelia. May also have an associated sodium channel activity.<br>**Function:** Electroneutral sodium- and bicarbonate-dependent cotransporter with a Na(+):HCO3(-) 1:1 stoichiometry. Regulates intracellular pH and may play a role in bicarbonate salvage in secretory epithelia. May also have an associated sodium channel activity<br>**Subunit:** Interacts with USH1C. Forms a complex with ATP6V1B1 and SLC9A3R1/EBP50. Interacts in a pH dependent-manner with CA2/carbonic anhydrase 2. Interacts with CFTR probably through SLC9A3R1/EBP50.<br>**Subcellular Location:** Basolateral cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Cell projection, stereocilium. Note=Also described at the apical cell membrane. Localizes to |

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| | the stereocilia of cochlear outer hair cells and to the lateral membrane of cochlear inner hair cells.<br>**Tissue Specificity:** Expressed in aorta, ventricles, atrium, mesenteric artery, kidney, spleen, duodenum, jejunum, ileum, colon, lung, trachea, gastric fundus and pylorus, cerebrum, cerebellum, pancreas, liver, parotid gland, and epididymis. Expressed in the inner ear by cochlear outer and inner hair cells (at protein level). Highly expressed in testis and spleen. Also detected in heart, brain, lung, liver and kidney. Isoform 4 and isoform 5 are specifically expressed in kidney. Isoform 6 is specifically expressed in hippocampal neurons.<br>**Post-translational modifications:** N-glycosylated.<br>**Similarity:** Belongs to the anion exchanger (TC 2.A.31) family.<br>**Database links:**<br>**Entrez Gene:** 9497 Human<br>Omim: 603353 Human<br>**SwissProt:** Q9Y6M7 Human<br>**Unigene:** 250072 Human<br>SLC4A7A member of the solute carrier family，A protein that plays an important role in substance transport and energy transfer。 |

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