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SLC4A8/10 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50773

Specification

SLC4A8/10 Antibody - Product Information

Application	**WB**
Primary Accession	Q2Y0W8
Other Accession	Q6U841
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**123,121,117,112,77,84 KDa**
Antigen Region	**401-426**

SLC4A8/10 Antibody - Additional Information

Gene ID 9498

Other Names
Electroneutral sodium bicarbonate exchanger 1, Electroneutral Na(+)-driven Cl-HCO3 exchanger, Solute carrier family 4 member 8, k-NBC3, S4A8

Dilution
WB~~ 1:1000

Format
Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions
-20℃

SLC4A8/10 Antibody - Protein Information

Name SLC4A8 {ECO:0000312|EMBL:AAY79176.1, ECO:0000312|HGNC:HGNC:11034}

Function
Mediates electroneutral sodium- and carbonate-dependent chloride-HCO3(-) exchange with a Na(+):HCO3(-) stoichiometry of 2:1 (PubMed:18577713). Plays a major role in pH regulation in neurons (By similarity). Mediates sodium reabsorption in the renal cortical collecting ducts (By similarity).

Cellular Location
Apical cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:Q6RVG2}; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:Q6RVG2}; Multi-pass membrane protein [Isoform 3]: Cell membrane; Multi-pass membrane protein [Isoform 5]: Cell membrane;

Multi-pass membrane protein

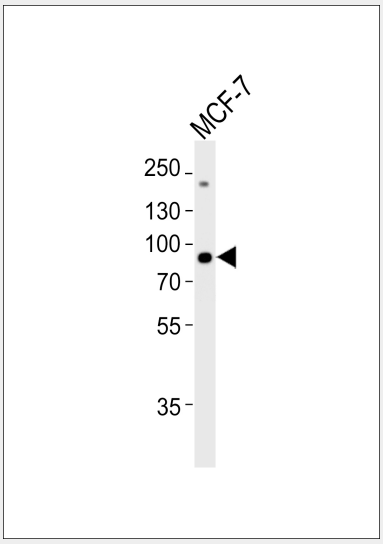
Tissue Location
Expressed in the pyramidal cells of the hippocampus (at protein level). Highly expressed in all major regions of the brain, spinal column and in testis, and moderate levels in trachea, thyroid and medulla region of kidney. Low expression levels observed in pancreas and kidney cortex. [Isoform 4]: Expressed in the brain, heart and kidney.

SLC4A8/10 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SLC4A8/10 Antibody - Images



Western blot analysis of lysate from MCF-7 cell line,using SLC4A8/10 Antibody(AP50773). AP50773 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysate at 35ug.

SLC4A8/10 Antibody - Background

Mediates electroneutral sodium- and carbonate-dependent chloride-HCO3(-) exchange with a Na(+):HCO3(-) stoichiometry of 2:1. Plays a major role in pH regulation in neurons. May be involved in cell pH regulation by transporting HCO3(-) from blood to cell. Enhanced expression in severe acid stress could be important for cell survival by mediating the influx of HCO3(-) into the cells. Also mediates lithium-dependent HCO3(-) cotransport. May be regulated by osmolarity.

SLC4A8/10 Antibody - References

Grichtchenko I.I.,et al.J. Biol. Chem. 276:8358-8363(2001).
Bouyer P.,et al.Submitted (MAY-2005) to the EMBL/GenBank/DDBJ databases.
Nagase T.,et al.DNA Res. 5:277-286(1998).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.