

SLC4A8/10 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP50773

Product Information

Application	WB
Primary Accession	Q2Y0W8
Other Accession	Q6U841
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	122938

Additional Information

Gene ID	9498
Other Names	Electroneutral sodium bicarbonate exchanger 1, Electroneutral Na(+)-driven Cl-HCO ₃ exchanger, Solute carrier family 4 member 8, k-NBC3, S4A8
Dilution	WB~~ 1:1000
Format	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.
Storage Conditions	-20°C

Protein Information

Name	SLC4A8 {ECO:0000312 EMBL:AA79176.1, ECO:0000312 HGNC:HGNC:11034}
Function	Mediates electroneutral sodium- and carbonate-dependent chloride-HCO ₃ (-) exchange with a Na(+):HCO ₃ (-) 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.

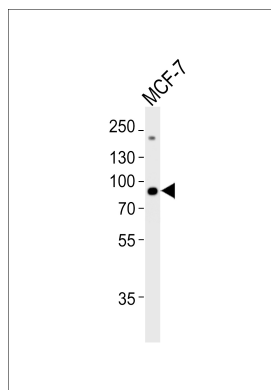
Background

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.

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.

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.

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