
Product Name: SLC4A8/10 Rabbit Polyclonal Antibody**Catalog #: APRab17959**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
Molecular Weight	140kDa

Antigen Information

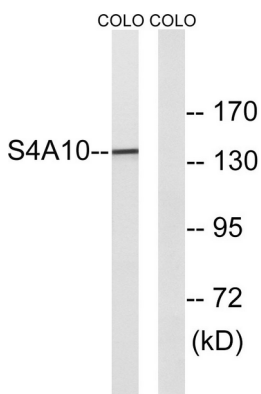
Gene Name	SLC4A8/SLC4A10 SLC4A8; KIAA0739; NBC; NBC3; NDCBE1; Electroneutral sodium bicarbonate exchanger 1;
Alternative Names	Electroneutral Na(+)-driven Cl-HCO ₃ exchanger; Solute carrier family 4 member 8; k-NBC3; SLC4A10; NCBE; Sodium-driven chloride bicarbonate exchanger; Solute
Gene ID	57282/9498
SwissProt ID	Q2Y0W8/Q6U841
Immunogen	The antiserum was produced against synthesized peptide derived from human SLC4A8/10. AA range:411-460

Background

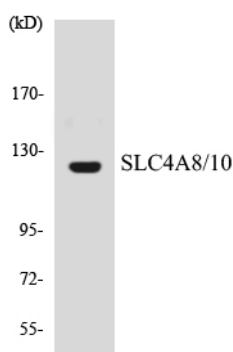
The protein encoded by this gene is a membrane protein that functions to transport sodium and bicarbonate ions across the cell membrane. The encoded protein is important for pH regulation in neurons. The activity of this protein can be inhibited by 4,4'-Di-isothiocyanatostilbene-2,2'-disulfonic acid (DIDS). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012],function:Mediates electroneutral sodium- and carbonate-dependent choride-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,miscellaneous:Activity is inhibited by 4,4'-Di-isothiocyanatostilbene-2,2'-disulfonic acid (DIDS - an inhibitor of several anionic channels and transporters),similarity:Belongs to the anion exchanger (TC 2.A.31) family,tissue specificity: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.,

Research Area

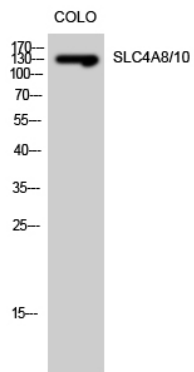
Image Data



Western blot analysis of lysates from COLO cells, using SLC4A8/10 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HUVEC cells using SLC4A8/10 antibody.



Western Blot analysis of COLO cells using SLC4A8/10 Polyclonal Antibody diluted at 1: 500