

## Summary

<b>Production Name</b>	SLC4A8/10 Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

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

## Application

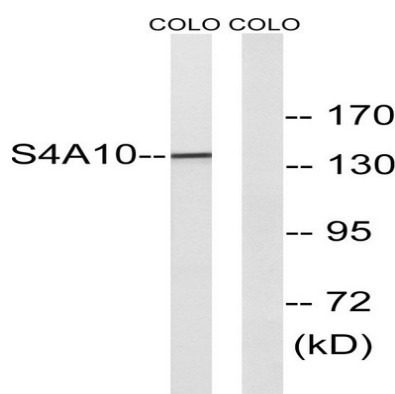
<b>Dilution Ratio</b>	WB 1:500 - 1:2000. ELISA: 1:40000..
<b>Molecular Weight</b>	140kD

## 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 chloride-HCO<sub>3</sub><sup>(-)</sup> exchange with a Na<sup>(+)</sup>:HCO<sub>3</sub><sup>(-)</sup> stoichiometry of 2:1. Plays a major role in pH regulation in neurons. May be involved in cell pH regulation by transporting HCO<sub>3</sub><sup>(-)</sup> from blood to cell. Enhanced expression in severe acid stress could be important for cell survival by mediating the influx of HCO<sub>3</sub><sup>(-)</sup> into the cells. Also mediates lithium-dependent HCO<sub>3</sub><sup>(-)</sup> 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.,

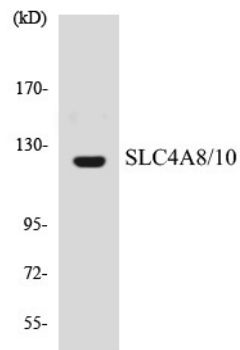
## Research Area

## Image Data

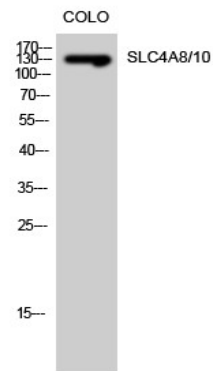


Western blot analysis of lysates from COLO cells, using SLC4A8/10 Antibody. The lane on the right is blocked with the synthesized peptide.

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



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

## Note

For research use only.