

## SLC4A8/10 Polyclonal Antibody

Catalog No: YT4316

**Reactivity:** Human; Mouse; Rat

**Applications:** WB;IHC;IF;ELISA

Target: SLC4A8/10

Gene Name: SLC4A8/SLC4A10

**Protein Name:** Electroneutral sodium bicarbonate exchanger 1/Sodium-driven chloride

bicarbonate exchanger

**Human Gene Id:** 57282/9498

**Human Swiss Prot** 

No:

Q2Y0W8/Q6U841

110.

Mouse Gene Id: 59033/94229

**Rat Gene Id:** 315311/295645

Rat Swiss Prot No: Q6RVG2/Q80ZA5

Immunogen: The antiserum was produced against synthesized peptide derived from human

SLC4A8/10. AA range:411-460

Specificity: SLC4A8/10 Polyclonal Antibody detects endogenous levels of SLC4A8/10

protein.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.



**Concentration:** 1 mg/ml

**Storage Stability:** -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 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:** 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 trache

Subcellular Location:

Membrane ; Multi-pass membrane protein .

**Expression:** 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.

Tag: hot

**Sort**: 16366

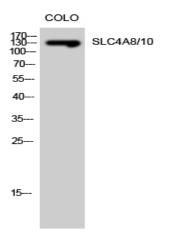
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Host: Rabbit

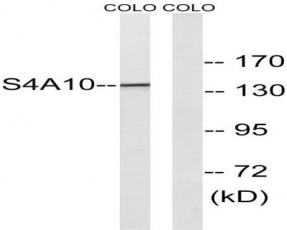
Modifications: Unmodified



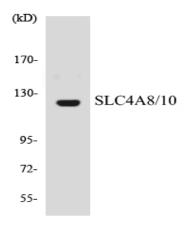
## **Products Images**



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



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 HUVECcells using SLC4A8/10 antibody.