

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
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

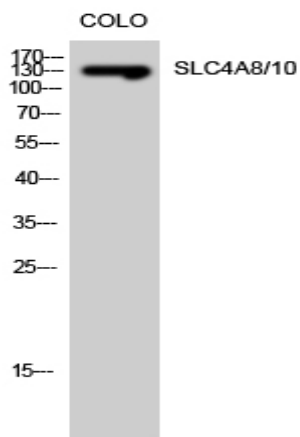
Background : The protein encoded by this gene is a membrane protein that functions to transport sodium and bicarbonate ions across the cell membrane. The encoded protein is important for pH regulation in neurons. The activity of this protein can be inhibited by 4,4'-Di-isothiocyanatostilbene-2,2'-disulfonic 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 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.,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

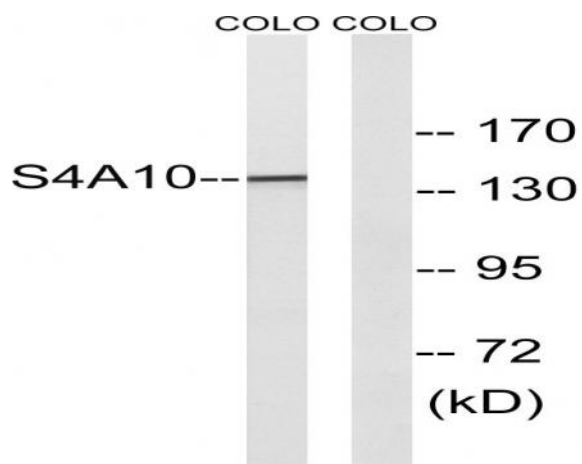
Subcellular Location : Membrane ; Multi-pass membrane protein .

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.

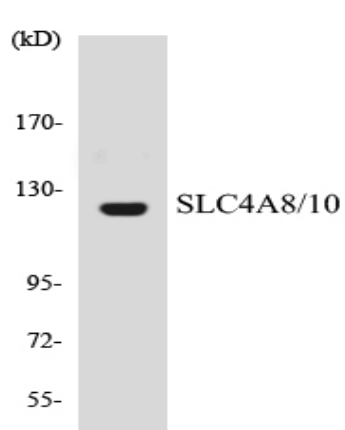
Products Images



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 HUVEC cells using SLC4A8/10 antibody.