

## S4A7 Rabbit pAb

CatalogNo: YN1328

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, ELISA

#### MW

- 133kD (Observed)

#### Isotype

- IgG

### Recommended Dilution Ratios

WB 1:500-2000

ELISA 1:5000-20000

### Storage

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

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

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized peptide derived from part region of human protein

**Specificity** S4A7 Polyclonal Antibody detects endogenous levels of protein.

### Target Information

**Gene name** SLC4A7 BT NBC2 NBC2B NBC3 SBC2 SLC4A6

<b>Protein Name</b>	Sodium bicarbonate cotransporter 3 (Sodium bicarbonate cotransporter 2) (Sodium bicarbonate cotransporter 2b) (Bicarbonate transporter) (Solute carrier family 4 member 7)		
	<b>Organism</b>	<b>Gene ID</b>	<b>UniProt ID</b>
	Human	<a href="#">9497;</a>	<a href="#">Q9Y6M7;</a>
	Mouse		<a href="#">Q8BTY2;</a>
	Rat		<a href="#">Q9R1N3;</a>
<b>Cellular Localization</b>	Basolateral cell membrane; Multi-pass membrane protein. Apical cell membrane ; Multi-pass membrane protein . Cell projection, stereocilium . Also described at the apical cell membrane. Localizes to the stereocilia of cochlear outer hair cells and to the lateral membrane of cochlear inner hair cells (By similarity). .		
<b>Tissue specificity</b>	Highly expressed in testis and spleen. Also expressed in retina, colon, small intestine, ovary, thymus, prostate, muscle, heart and kidney. Isoform 1 is expressed in skeletal muscle and heart muscle.		
<b>Function</b>	<p>Domain:The PDZ-binding motif mediates interaction with the CFTR, SLC9A3R1/EBP50 complex and probably with USH1C.,enzyme regulation:Transporter activity is regulated by CA2/carbonic anhydrase 2, cAMP and PKA. Insensitive to stilbene derivatives. PubMed:10347222 states it is inhibited by 5-(N-ethyl-N-isopropyl)-amiloride (EIPA).,Function:Electroneutral sodium- and bicarbonate-dependent cotransporter with a Na(+):HCO3(-) 1:1 stoichiometry. Regulates intracellular pH and may play a role in bicarbonate salvage in secretory epithelia. May also have an associated sodium channel activity.,PTM:N-glycosylated.,similarity:Belongs to the anion exchanger (TC 2.A.31) family.,subcellular location:Also described at the apical cell membrane. Localizes to the stereocilia of cochlear outer hair cells and to the lateral membrane of cochlear inner hair cells.,subunit:Interacts with CFTR through SLC9A3R1/EBP50. Interacts with USH1C. Forms a complex with ATP6V1B1 and SLC9A3R1/EBP50. Interacts in a pH dependent-manner with CA2/carbonic anhydrase 2.,tissue specificity:Highly expressed in testis and spleen. Also expressed in retina, colon, small intestine, ovary, thymus, prostate, muscle, heart and kidney. Isoform 1 is expressed in skeletal muscle and heart muscle.,</p>		

## Validation Data

## Contact information

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