

**Slc26a5 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP57782****Specification**

---

**Slc26a5 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC
Primary Accession	<a href="#">P58743</a>
Reactivity	Rat, Pig, Cow
Host	Rabbit
Clonality	Polyclonal
Calculated MW	81264

**Slc26a5 Polyclonal Antibody - Additional Information****Gene ID** 375611**Other Names**Prestin, Solute carrier family 26 member 5,  
SLC26A5, PRES**Format**0.01M TBS(pH7.4) with 1% BSA, 0.09%  
(W/V) sodium azide and 50% Glyce**Storage**Store at -20 °C for one year. Avoid repeated  
freeze/thaw cycles. When reconstituted in  
sterile pH 7.4 0.01M PBS or diluent of  
antibody the antibody is stable for at least  
two weeks at 2-4 °C.**Slc26a5 Polyclonal Antibody - Protein Information****Name** SLC26A5**Synonyms** PRES**Function**Motor protein that converts auditory stimuli  
to length changes in outer hair cells and  
mediates sound amplification in the  
mammalian hearing organ. Prestin is a  
bidirectional voltage-to-force converter, it  
can operate at microsecond rates. It uses  
cytoplasmic anions as extrinsic voltage  
sensors, probably chloride and bicarbonate.

After binding to a site with millimolar affinity, these anions are translocated across the membrane in response to changes in the transmembrane voltage. They move towards the extracellular surface following hyperpolarization, and towards the cytoplasmic side in response to depolarization. As a consequence, this translocation triggers conformational changes in the protein that ultimately alter its surface area in the plane of the plasma membrane. The area decreases when the anion is near the cytoplasmic face of the membrane (short state), and increases when the ion has crossed the membrane to the outer surface (long state). So, it acts as an incomplete transporter. It swings anions across the membrane, but does not allow these anions to dissociate and escape to the extracellular space. Salicylate, an inhibitor of outer hair cell motility, acts as competitive antagonist at the prestin anion-binding site (By similarity).

**Cellular Location**

Cell membrane; Multi-pass membrane protein. Note=Lateral wall of outer hair cells

**Slc26a5 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)