Immunotag™ Prestin Antibody

Antibody Specification		
Catalog No.	ITA8337	
Product Description	Immunotag™ Prestin Antibody	
Size	100 μg, 200 μg	
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647	
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.	
Target Protein	Prestin	
Clonality	Polyclonal	
Storage/Stability	-20°C/1 year	
Application	WB,IHC,ELISA	
Recommended Dilution	WB 1:1000-3000 IHC 1:200	
Concentration	1 mg/ml	
Reactive Species	Human,Mouse,Rat	
Host Species	Rabbit	
Immunogen	A synthesized peptide derived from human Prestin	
Specificity	Prestin Antibody detects endogenous levels of total Prestin	
Purification	The antiserum was purified by peptide affinity chromatography.	
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt	
Gene Name	SLC26A5	
Accession No.	P58743	

Antibody Specification	
Description	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).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	81 kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.

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