Mouse Prestin (SLC26A5) ELISA Kit

Catalog No: #EK7286

Package Size: #EK7286-1 48T #EK7286-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Mouse Prestin (SLC26A5) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	DFNB61; MGC118886; MGC118887; MGC118888; MGC118889; PRES; deafness; neurosensory; autosomal recessive; 61|prestin|prestin (motor protein)
Accession No.	Q99NH7
Uniprot	Q99NH7
GeneID	80979;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:7.8 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate SLC26A5 in samples. An antibody specific for SLC26A5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySLC26A5 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC26A5 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SLC26A5 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Prestin is the motor protein of the outer hair cells of the inner ear of the mammalian cochlea. It is highly expressed in the outer hair cells, and is not expressed in the nonmotile inner hair cells. Immunolocalization shows prestin is expressed in the lateral plasma membrane of the outer hair cells, the region where electromotility occurs. The expression pattern correlates with the appearance of outer hair cell electromotility. Prestin is specifically expressed in outer hair cells (OHCs) of the cochlea and is essential in auditory processing. Intracellular anions are thought to act as extrinsic voltage sensors, which bind to this protein and trigger the conformational changes required for rapid length changes in OHCs.Not surprisingly the keen echolocation in bats and dolphins is driven by prestin.

Note: This product is for in vitro research use only