

Human Pendrin (SLC26A4) ELISA Kit | PDS elisa kit

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CATALOG #
AAA330821

REACTIVITY
Human

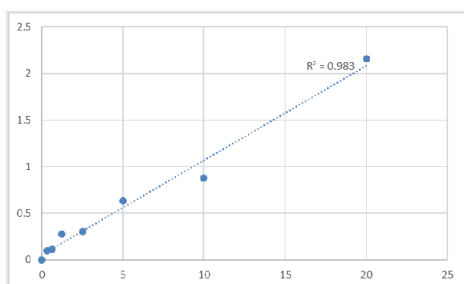
PRODUCT SYNONYMS

Pendrin (SLC26A4); Human Pendrin (SLC26A4) ELISA Kit; SLC26A4; DFNB4; EVA; TDH2B; pendrin; PDS elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Pendrin (SLC26A4) ELISA Kit has high sensitivity and excellent specificity for detection of Human SLC26A4. No significant cross-reactivity or interference between Human SLC26A4 and analogues was observed.
Sequence Length	780
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Pendrin (SLC26A4) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PDS elisa kit	Description: This Human Pendrin (SLC26A4) ELISA Kit employs a two-site sandwich ELISA to quantitate SLC26A4 in samples. An antibody specific for SLC26A4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SLC26A4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC26A4 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 SLC26A4 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Pendrin is an ion exchanger found in the cortical collecting duct. Pendrin is found at the luminal membrane of follicular cells in the thyroid gland. It transports iodine from the cytoplasm to the follicle lumen. Its activity is necessary for production of thyroid hormone. Pendrin is also found in the cells of the inner ear, where its function is not well understood. Mutations in this gene are associated with Pendred syndrome, the most common form of syndromic deafness, an autosomal-recessive disease. Pendred syndrome is also characterized by hypothyroidism. SLC26A4 is highly homologous to the SLC26A3 gene; they have similar genomic structures and this gene is located 3' of the SLC26A3 gene. The encoded protein has homology to sulfate transporters.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4505697
NCBI GeneID	5172
NCBI Accession #	NP_000432.1
NCBI GenBank Nucleotide #	NP_000432.1
UniProt Accession #	O43511
NCBI Official Full Name	pendrin
NCBI Official Synonym Full Names	solute carrier family 26 member 4
NCBI Official Symbol	SLC26A4
NCBI Official Synonym Symbols	EVA; PDS; DFNB4; TDH2B
NCBI Protein Information	pendrin
UniProt Protein Name	Pendrin
UniProt Gene Name	SLC26A4
UniProt Synonym Gene Names	PDS

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.