

Human Sodium/Iodide Cotransporter (SLC5A5) ELISA Kit | SLC5A5 elisa kit

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CATALOG #
AAA330807

REACTIVITY
Human

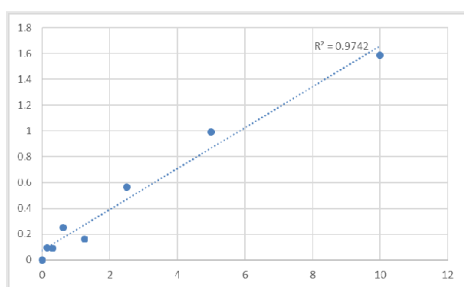
PRODUCT SYNONYMS

Sodium/Iodide Cotransporter (SLC5A5); Human Sodium/Iodide Cotransporter (SLC5A5) ELISA Kit; SLC5A5; NIS; TDH1; Na(+)/I(-) cotransporter; SLC5A5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Sodium/iodide cotransporter (SLC5A5) ELISA Kit has high sensitivity and excellent specificity for detection of Human SLC5A5. No significant cross-reactivity or interference between Human SLC5A5 and analogues was observed.
Sequence Length	643
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 Sodium/iodide cotransporter (SLC5A5) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SLC5A5 elisa kit	Description: This Human Sodium/iodide cotransporter (SLC5A5) ELISA Kit employs a two-site sandwich ELISA to quantitate SLC5A5 in samples. An antibody specific for SLC5A5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SLC5A5 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC5A5 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 SLC5A5 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: The sodium-iodide symporter (NIS) is an ion pump that actively transports iodide (I-) across the basolateral membrane into thyroid epithelial cells. The NIS a member of the sodium/solute symporter family.Active transport of iodine into the thyroid gland is an important step in the process of iodide organification and the formation of triiodothyronine (T3) and thyroxine (T4). The symporter is stimulated by TSH, thereby increasing iodine uptake and iodination of tyrosine.The pump symports two sodium ions for every iodide ion. This symporter is driven by low internal sodium concentration in the thyroid epithelial cells, via facilitated diffusion, caused by the sodium/potassium ATPase pump.This pump is the target of certain anion based inhibitors such as perchlorate, pertechnetate, and thiocyanate.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507035
NCBI GeneID	6528
NCBI Accession #	NP_000444.1
NCBI GenBank Nucleotide #	NP_000444.1
UniProt Accession #	Q92911
NCBI Official Full Name	sodium/iodide cotransporter
NCBI Official Synonym Full Names	solute carrier family 5 member 5
NCBI Official Symbol	SLC5A5
NCBI Official Synonym Symbols	NIS; TDH1
NCBI Protein Information	sodium/iodide cotransporter
UniProt Protein Name	Sodium/iodide cotransporter
UniProt Gene Name	SLC5A5
UniProt Synonym Gene Names	NIS; Na(+)/I(-) cotransporter; Na(+)/I(-) symporter

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/sodium-iodide-cotransporter-slc5a5/330807>