

Human Sodium-Dependent Dopamine Transporter (SLC6A3) ELISA Kit | SLC6A3 elisa kit

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CATALOG #
AAA330805

REACTIVITY
Human

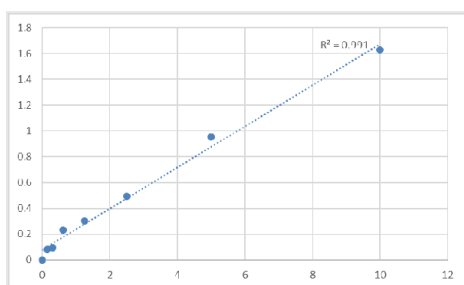
PRODUCT SYNONYMS

Sodium-Dependent Dopamine Transporter (SLC6A3); Human Sodium-Dependent Dopamine Transporter (SLC6A3) ELISA Kit; SLC6A3; DAT; DAT1; SLC6A3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Sodium-dependent dopamine transporter (SLC6A3) ELISA Kit has high sensitivity and excellent specificity for detection of Human SLC6A3. No significant cross-reactivity or interference between Human SLC6A3 and analogues was observed.
Sequence Length	620
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-dependent dopamine transporter (SLC6A3) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SLC6A3 elisa kit	Description: This Human Sodium-dependent dopamine transporter (SLC6A3) ELISA Kit employs a two-site sandwich ELISA to quantitate SLC6A3 in samples. An antibody specific for SLC6A3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SLC6A3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC6A3 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 SLC6A3 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Dopamine transporter is a membrane-spanning protein that binds the neurotransmitter dopamine; DAT provides the primary mechanism through which dopamine is cleared from synapses, transporting dopamine from the synapse into a neuron. DAT is present in the peri-synaptic area of dopaminergic neurons in areas of the brain where dopamine signaling is common. DAT is implicated in a number of dopamine-related disorders, including attention deficit hyperactivity disorder, bipolar disorder, clinical depression, and alcoholism. DAT is located on human chromosome 5, consists of 15 coding exons, and is roughly 64 kbp long. Evidence for the associations between DAT and dopamine related disorders has come from a genetic polymorphism in the DAT, which influences the amount of protein expressed.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507041
NCBI GeneID	6531
NCBI Accession #	NP_001035.1
NCBI GenBank Nucleotide #	NP_001035.1
UniProt Accession #	Q01959
NCBI Official Full Name	sodium-dependent dopamine transporter
NCBI Official Synonym Full Names	solute carrier family 6 member 3
NCBI Official Symbol	SLC6A3
NCBI Official Synonym Symbols	DAT; DAT1; PKDYS; PKDYS1
NCBI Protein Information	sodium-dependent dopamine transporter
UniProt Protein Name	Sodium-dependent dopamine transporter
UniProt Gene Name	SLC6A3
UniProt Synonym Gene Names	DAT1; DA transporter; DAT
UniProt Entry Name	SC6A3_HUMAN

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.