

Human Vesicular Acetylcholine Transporter (SLC18A3) ELISA Kit | VACHT elisa kit

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CATALOG #
AAA330831

REACTIVITY
Human

PRODUCT SYNONYMS

Vesicular Acetylcholine Transporter (SLC18A3); Human Vesicular Acetylcholine Transporter (SLC18A3) ELISA Kit; SLC18A3; MGC12716; solute carrier family 18; member 3; vesicular acetylcholine transporter; VACHT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Vesicular acetylcholine transporter (SLC18A3) ELISA Kit has high sensitivity and excellent specificity for detection of Human SLC18A3. No significant cross-reactivity or interference between Human SLC18A3 and analogues was observed.
Sequence Length	532
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 Vesicular acetylcholine transporter (SLC18A3) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for VACHT elisa kit	Description: This Human Vesicular acetylcholine transporter (SLC18A3) ELISA Kit employs a two-site sandwich ELISA to quantitate SLC18A3 in samples. An antibody specific for SLC18A3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SLC18A3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC18A3 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 SLC18A3 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: SLC18A3 transports acetylcholine into secretory vesicles for release into the extracellular space. Acetylcholine transport utilizes a proton gradient established by a vacuolar ATPase. the human vesicular acetylcholine transporter is encoded by a sequence contained uninterrupted within the first intron of the gene for choline acetyltransferase, the enzyme required for acetylcholine biosynthesis in the peripheral and central cholinergic nervous systems. Thus, the VACHT gene is located at 10q11.2. Transcription of VACHT and CHAT mRNA from the same or contiguous promoters within the single regulatory locus provides a previously undescribed genetic mechanism for coordinate regulation of 2 proteins whose expression is required to establish a mammalian neuronal phenotype.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	118582257
NCBI GeneID	6572
NCBI Accession #	NP_003046.2
NCBI GenBank Nucleotide #	NP_003046.2
UniProt Accession #	Q16572
NCBI Official Full Name	vesicular acetylcholine transporter
NCBI Official Synonym Full Names	solute carrier family 18 member A3
NCBI Official Symbol	SLC18A3
NCBI Official Synonym Symbols	CMS21; VACHT
NCBI Protein Information	vesicular acetylcholine transporter
UniProt Protein Name	Vesicular acetylcholine transporter
UniProt Gene Name	SLC18A3
UniProt Synonym Gene Names	VACHT; VACHT

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/vacht-human-elisa-kits/vesicular-acetylcholine-transporter-slc18a3/330831>