Beta-Synuclein (SNCB) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Beta-synuclein (SNCB), ELISA Kit
Full Product Name	Human Beta-synuclein (SNCB) ELISA Kit
Product Gene Name	SNCB elisa kit
Product Synonym Names	Beta-synuclein
Species Reactivity	Human
Assay Type	Quantitive Sandwich
Samples	Serum, Plasma, Other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.039ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of Human SNCB. No significant cross-reactivity or interference between Human SNCB and analogues was observed.
Preparation and Storage	Store at 2-8 degree C. Please refer to Instruction Manual.
Molecular Weight	14,288 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (176047210..176057557, complement). Location: 5q35
OMIM	602569
3D Structure	ModBase 3D Structure for Q16143
Detection Wavelength	450nm
Assay Duration	1-4.5h
Sample Volume	1-200uL
Precision	Intra-assay Precision (Precision within an assay) Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision. Inter-assay Precision (Precision between assays) Three samples of known concentration were tested in forty separate assays to assess inter-assay precision. CV (%) = SD/meanX100 Intra-Assay: CV
Test Principle	This assay employs a two-site sandwich ELISA to quantitate SNCB in samples. An antibody specific for SNCB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SNCB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SNCB 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 SNCB bound in the initial step. The color development is stopped and the intensity of the color is measured.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.

Related Product Information for SNCB elisa kit	MBS2804685 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Beta-synuclein (SNCB) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing SNCB. The ELISA analytical biochemical technique of the MBS2804685 kit is based on SNCB antibody-SNCB antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect SNCB antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, SNCB. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of SNCB elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SNCB. It may not necessarily be applicable to this product.

NCBI GI #	48255903
NCBI GeneID	6620
NCBI Accession #	NP_001001502.1
UniProt Primary Accession #	Q16143
UniProt Secondary Accession #	Q6IAX7
UniProt Related Accession #	Q16143
GenBank Nucleotide #	NM_001001502.1
NCBI Official Full Name	beta-synuclein
NCBI Official Synonym Full Names	synuclein, beta
NCBI Official Symbol	SNCB
UniProt Protein Name	Beta-synuclein
Protein Family	Beta-synuclein
UniProt Gene Name	SNCB
UniProt Entry Name	SYUB_HUMAN
NCBI Protein Information	beta-synuclein
NCBI Summary for SNCB	The protein encoded by this gene is highly homologous to alpha-synuclein. These proteins are abundantly expressed in the brain and putatively inhibit phospholipase D2 selectively. The encoded protein, which may play a role in neuronal plasticity, is abundant in neurofibrillary lesions of patients with Alzheimer disease. This protein has been shown to be highly expressed in the substantia nigra of the brain, a region of neuronal degeneration in patients with Parkinson disease; however, no direct relation to Parkinson disease has been established. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for SNCB	SNCB: a member of the synuclein family. Abundantly expressed in the brain. Inhibits phospholipase D2 selectively. May play a role in neuronal plasticity, is abundant in neurofibrillary lesions of Alzheimer's patients. Highly expressed in the substantia nigra of the brain, a region of neuronal degeneration in patients with Parkinson disease. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 5q35 Cellular Component: nucleoplasm; Golgi apparatus; growth cone; mitochondrion; cell soma; cytoplasm; terminal button; inclusion body Molecular Function: phospholipase inhibitor activity; beta-tubulin binding; calcium ion binding; alpha-tubulin binding Biological Process: synaptic transmission; negative regulation of catalytic activity; synapse organization and biogenesis; negative regulation of neuron apoptosis; dopamine metabolic process Disease: Dementia, Lewy Body
Research Articles on SNCB	**1.** both alphaS- and P123H betaS-globules were formed through similar but distinct pathogenic mechanisms.
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