Septin-4 (SEPT4) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Septin-4 (SEPT4), ELISA Kit
Full Product Name	Human Septin-4 (SEPT4) ELISA Kit
Product Gene Name	SEPT4 elisa kit
Product Synonym Names	ARTS; BRADEION; CE5B3; H5; MART; PNUTL2; SEP4; hCDCREL-2; hucep-7; cell division control-related protein 2; cerebral protein 7; peanut-like 2; septin-M
Species Reactivity	Human
Assay Type	Quantitive Sandwich
Samples	Serum, Plasma, Other Biological Fluids
Specificity	This assay has high sensitivity and excellent specificity for detection of Human SEPT4. No significant cross-reactivity or interference between Human SEPT4 and analogues was observed.
Preparation and Storage	Store at 2-8 degree C.
Molecular Weight	22,983 Da
3D Structure	ModBase 3D Structure for P28661
Detection Wavelength	450 nm
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
Inter-Assay	CV
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SEPT4 elisa kit	Description: This assay employs a two-site sandwich ELISA to quantitate SEPT4 in samples. An antibody specific for SEPT4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SEPT4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SEPT4 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 SEPT4 bound in the initial step. The color development is stopped and the intensity of the color is measured. Overview: Septin-4 is a member of the septin gene family of nucleotide binding proteins, originally described in yeast as cell division cycle regulatory proteins. Septins are highly conserved in yeast, Drosophila, and mouse and appear to regulate cytoskeletal organization. The protein encoded by this gene is thought to be part of a complex involved in cytokinesis. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized.PNUTL2 contains 478 amino acids and a GTP-binding domain. Sequence comparisons revealed that PNUTL2 shares 88% identity with mouse h5 and 50 to 60% identity with members of the septin family, which are GTP-binding proteins involved in cytokinesis. Northern blot analysis indicated that the 1.7-kb PNUTL2 mRNA is expressed ubiquitously.
Other Notes	Small volumes of SEPT4 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.

Searchable Terms for SEPT4 purchase	MBS286753 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Septin-4 (SEPT4) 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 SEPT4. The ELISA analytical biochemical technique of the MBS286753 kit is based on SEPT4 antibody-SEPT4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect SEPT4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, SEPT4. 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(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SEPT4. It may not necessarily be applicable to this product.

NCBI GI #	548923742
NCBI GeneID	18952
NCBI Accession #	NP_001271321.1
UniProt Primary Accession #	P28661
UniProt Secondary Accession #	Q3UVH1; Q3UZC3; Q5ND10; Q5ND15; Q5ND16; Q7TPM7; Q80VX1; B2KGM6
UniProt Related Accession #	P28661
GenBank Nucleotide #	NM_001284392.1
NCBI Official Full Name	septin-4 isoform 2
NCBI Official Synonym Full Names	septin 4
NCBI Official Symbol	Sept4
NCBI Official Synonym Symbols	Bh5; ARTS; Pnutl2
UniProt Protein Name	Septin-4
UniProt Synonym Protein Names	Brain protein H5; Peanut-like protein 2
UniProt Gene Name	Sept4
UniProt Synonym Gene Names	Pnutl2
NCBI Protein Information	septin-4
UniProt Comments for SEPT4	Filament-forming cytoskeletal GTPase. Forms a filamentous structure with SEPT12, SEPT6, SEPT2 and probably SEPT4 at the sperm annulus which is required for the structural integrity and motility of the sperm tail during postmeiotic differentiation (). May play a role in cytokinesis (Potential). May play a role in platelet secretion ().
Research Articles on SEPT4	**1.** Adenovirus-Sept4 can attenuate the development of liver fibrosis induced by S. japonicum through apoptosis.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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