Double Stranded DNA (DSDNAAB) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Double Stranded DNA Antibody (DSDNAAB), ELISA Kit
Full Product Name	Human Double Stranded DNA Antibody ELISA Kit
Product Gene Name	DSDNAAB elisa kit
Species Reactivity	Human
Detection Range	1.56IU/ml-50IU/ml
Sensitivity	0.1IU/ml
Preparation and Storage	Store all reagents at 2-8 degree C
Inter-assay Precision	Inter-assay CV (%) is less than 15%. [CV(%) = SD/mean ×100]. All CV% should be compared by concentration, not compared by OD values.
Intra-assay Precision	Intra-assay CV (%) is less than 15%.
Molecular Weight	174,385 Da
OMIM	126430
3D Structure	ModBase 3D Structure for P11388
Inter-Assay	This Quantitative Sandwich ELISA kit is for lab reagent/research use only! This kit is intended to be used for determine the level of Anti-DSDNA (hereafter termed "analyte") in undiluted original Human serum, plasma or tissue homogenates samples. For other sample types please contact tech support to determine compatibility with this assay. This kit is not suitable for assaying non-biological sources of substances.
Related Product Information for DSDNAAB elisa kit	**Principle of the assay:** The kit uses a double?antigen sandwich enzyme?linked immunosorbent assay (ELISA) to analyze the existence or not of Human DSDNAAB in samples. Add sample to wells pre?coated with one Human Double Stranded DNA antigen, at same time add HRP-conjugated Human Double Stranded DNA antigen to bind the analyte, followed by incubation and washing procedures to remove unbound substance. Finally, HRP substrates are added, incubated for detection, and a blue color is developed. Reaction is stopped and color turns to yellow when Stopping Solution (acidic) is added. The existence or not of Human DSDNAAB in the samples is then determined by comparing the O.D. of the samples to the CUT OFF.
Other Notes	Small volumes of DSDNAAB 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 DSDNAAB purchase	MBS009155 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Double Stranded DNA Antibody (DSDNAAB) 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 DSDNAAB. The ELISA analytical biochemical technique of the MBS009155 kit is based on DSDNAAB antibody-DSDNAAB antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DSDNAAB antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DSDNAAB. 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 DSDNAAB. It may not necessarily be applicable to this product.

NCBI GI #	13959709
NCBI GeneID	7153

NCBI Accession #	P11388.3
UniProt Primary Accession #	P11388
UniProt Secondary Accession #	Q71UN1; Q71UQ5; Q9HB24; Q9HB25; Q9HB26; Q9UP44; Q9UQP9; B2RTS1
UniProt Related Accession #	P11388
NCBI Official Full Name	DNA topoisomerase 2-alpha
NCBI Official Synonym Full Names	topoisomerase (DNA) II alpha 170kDa
NCBI Official Symbol	TOP2A
NCBI Official Synonym Symbols	TOP2; TP2A
UniProt Protein Name	DNA topoisomerase 2-alpha
UniProt Synonym Protein Names	DNA topoisomerase II, alpha isozyme
UniProt Gene Name	TOP2A
UniProt Synonym Gene Names	TOP2
UniProt Entry Name	TOP2A_HUMAN
NCBI Protein Information	DNA topoisomerase 2-alpha; DNA gyrase; DNA topoisomerase II, 170 kD; DNA topoisomerase (ATP-hydrolyzing); DNA topoisomerase II, alpha isozyme
NCBI Summary for DSDNAAB	This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This nuclear enzyme is involved in processes such as chromosome condensation, chromatid separation, and the relief of torsional stress that occurs during DNA transcription and replication. It catalyzes the transient breaking and rejoining of two strands of duplex DNA which allows the strands to pass through one another, thus altering the topology of DNA. Two forms of this enzyme exist as likely products of a gene duplication event. The gene encoding this form, alpha, is localized to chromosome 17 and the beta gene is localized to chromosome 3. The gene encoding this enzyme functions as the target for several anticancer agents and a variety of mutations in this gene have been associated with the development of drug resistance. Reduced activity of this enzyme may also play a role in ataxia-telangiectasia. [provided by RefSeq, Jul 2010]
UniProt Comments for DSDNAAB	TOP2A: a DNA topoisomerase. Controls of topological states of DNA by transient breakage and rejoining of DNA. Makes double-strand breaks. Four splice variant isoforms have been described. Protein type: EC 5.99.1.3; Isomerase Chromosomal Location of Human Ortholog: 17q21-q22 Cellular Component: centriole; nucleoplasm; nuclear chromosome; viral integration complex; DNA topoisomerase complex (ATP-hydrolyzing); protein complex; nucleolus; condensed chromosome; nucleus Molecular Function: protein C-terminus binding; DNA topoisomerase (ATP-hydrolyzing) activity; DNA-dependent ATPase activity; ubiquitin binding; protein homodimerization activity; histone deacetylase binding; magnesium ion binding; drug binding; protein binding; enzyme binding; DNA binding; protein kinase C binding; protein heterodimerization activity; chromatin binding; DNA bending activity; ATP binding Biological Process: DNA unwinding during replication; mitotic recombination; positive regulation of viral genome replication; DNA topological change; positive regulation of apoptosis; sister chromatid segregation; rhythmic process; regulation of circadian rhythm; apoptotic chromosome condensation; embryonic cleavage; chromosome segregation; DNA ligation; positive regulation of retroviral genome replication; resolution of meiotic joint molecules as recombinants; positive regulation of transcription from RNA polymerase II promoter; hemopoietic progenitor cell differentiation; mitotic cell cycle; response to DNA damage stimulus
Research Articles on DSDNAAB	**1.** Top2alpha is the major isoform mediating the replication-dependent mechanism and both Top2alpha and Top2 mediate the transcription-dependent mechanism.

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