Polymerase (DNA Directed), Lambda (POLL) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	polymerase (DNA directed) , lambda (POLL), ELISA Kit
Full Product Name	Human DNA polymerase lambda, POLL ELISA Kit
Product Gene Name	POLL elisa kit
Product Synonym Names	Human DNA polymerase lambda (POLL) ELISA kit; RP11-529I10.1; BETAN; FLJ46002; POLKAPPA; DNA polymerase beta-2; DNA polymerase kappa (DNA polymerase beta-N) ; DNA polymerase lamda2; DNA-directed DNA polymerase lambda; OTTHUMP00000020323; pol beta2; pol; polymerase (DNA directed); lambda
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Detection Range	0.25ng/ml-8ng/ml
Sensitivity	0.1ng/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	63,482 Da
OMIM	606343
3D Structure	ModBase 3D Structure for Q9UGP5
Related Product Information for POLL elisa kit	Background: This Quantitative Sandwich ELISA kit is for lab reagent/research use only, not for drug, household, therapeutic or test applications! This kit is intended to be used to determine the level of POLL (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.
Other Notes	Small volumes of POLL 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 POLL purchase	MBS9329278 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the polymerase (DNA directed), lambda (POLL) 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 POLL. The ELISA analytical biochemical technique of the MBS9329278 kit is based on POLL antibody-POLL antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect POLL antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, POLL. 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 POLL. It may not necessarily be applicable to this product.

NCBI GI #	291463287
NCBI GeneID	27343
NCBI Accession #	NP_001167555.1

UniProt Primary Accession #	Q9UGP5
UniProt Secondary Accession #	Q5JQP5; Q6NUM2; Q9HA10; Q9HB35; D3DR76
UniProt Related Accession #	Q9UGP5
GenBank Nucleotide #	NM_001174084.1
NCBI Official Full Name	DNA polymerase lambda isoform a
NCBI Official Synonym Full Names	polymerase (DNA directed), lambda
NCBI Official Symbol	POLL
NCBI Official Synonym Symbols	BETAN; POLKAPPA
UniProt Protein Name	DNA polymerase lambda
UniProt Synonym Protein Names	DNA polymerase beta-2; Pol beta2; DNA polymerase kappa
Protein Family	DNA polymerase
UniProt Gene Name	POLL
UniProt Synonym Gene Names	Pol Lambda; Pol beta2
UniProt Entry Name	DPOLL_HUMAN
NCBI Protein Information	DNA polymerase lambda; DNA polymerase kappa; DNA polymerase beta-2; DNA polymerase beta-N
NCBI Summary for POLL	This gene encodes a DNA polymerase. DNA polymerases catalyze DNA-template-directed extension of the 3'-end of a DNA strand. This particular polymerase, which is a member of the X family of DNA polymerases, likely plays a role in non-homologous end joining and other DNA repair processes. Alternatively spliced transcript variants have been described. [provided by RefSeq, Mar 2010]
UniProt Comments for POLL	POLL: Repair polymerase. Involved in base excision repair (BER) responsible for repair of lesions that give rise to abasic (AP) sites in DNA. Has both DNA polymerase and terminal transferase activities. Has a 5'-deoxyribose-5-phosphate lyase (dRP lyase) activity. Belongs to the DNA polymerase type-X family. Protein type: Lyase; EC 2.7.7.7; DNA repair, damage; Transferase Chromosomal Location of Human Ortholog: 10q23 Cellular Component: nucleus Molecular Function: DNA binding; metal ion binding; lyase activity; DNA-directed DNA polymerase activity Biological Process: nucleotide-excision repair; somatic hypermutation of immunoglobulin genes; DNA replication
Research Articles on POLL	**1.** A specific N-terminal extension of the 8 kDa domain of DNA polymerase lambda is important for the non-homologous end joining function.
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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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