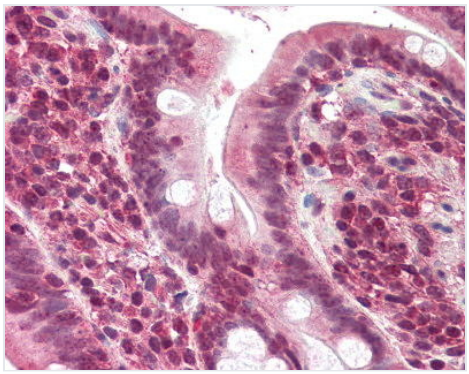
POLL Antibody – Goat Polyclonal

PRODUCT OVERVIEW

Product Name	POLL, Polyclonal Antibody
Full Product Name	POLL, CT (DNA Polymerase lambda, Pol Lambda, DNA Polymerase beta-2, Pol beta2, DNA Polymerase kappa)
Product Gene Name	anti-POLL antibody
Product Synonym Names	Anti -POLL, CT (DNA Polymerase lambda, Pol Lambda, DNA Polymerase beta-2, Pol beta2, DNA Polymerase kappa)
Clonality	Polyclonal
Host	Goat
Species Reactivity	Human
Form/Format	Supplied as a liquid in TBS, pH 7.3, 0.5% BSA, 0.02% sodium azide.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes human POLL. Species sequence homology: Mouse.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	63,482 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (103338639..103348027, complement). Location: 10q23
OMIM	606343
3D Structure	ModBase 3D Structure for Q9UGP5
Immunogen	Synthetic peptide corresponding to C-LGLPYREPAERDW from human POLL at C-terminal.
Product Categories/Family for anti-POLL antibody	Antibodies; Abs to Enzymes; Polymerase
Applications Tested/Suitable for anti-POLL antibody	ELISA (EL/EIA), Immunohistochemistry (IHC)
Application Notes for anti-POLL antibody	Suitable for use in ELISA and Immunohistochemistry. Dilution: ELISA: 1:32,000 Immunohistochemistry (Formalin fixed paraffin embedded): 5ug/ml
Related Product Information for anti-POLL antibody	DNA polymerase lambda (pol lambda) is a DNA polymerase involved in base excision repair (BER). Pol lambda possesses terminal transferase and 5'-deoxyribose-5-phosphate lyase activity. These activities have been found to be coordinated by PCNA and replication protein A
Other Notes	Small volumes of anti-POLL antibody 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	MBS6009414 is an antibody targeting POLL. Also known as POLL, CT (DNA Polymerase lambda, Pol Lambda, DNA Polymerase beta-2, Pol beta2, DNA Polymerase kappa). Reactive in Human. Host: Goat.



Immunohistochemistry (IHC) of anti-POLL antibody
Human Small Intestine (formalin-fixed, paraffin-embedded) stained with POLL antibody at 5ug/ml followed by biotinylated goat IgG secondary antibody alkaline phosphatase-streptavidin and chromogen.

ADDITIONAL DETAILS

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

NCBI GI #	113812195
NCBI GeneID	27343
NCBI Accession #	AAH03548.2
UniProt Primary Accession #	Q9UGP5
UniProt Secondary Accession #	Q5JQP5; Q6NUM2; Q9HA10; Q9HB35; D3DR76
UniProt Related Accession #	Q9UGP5
NCBI Official Full Name	POLL protein
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; Transferase; DNA repair, damage; EC 2.7.7.7 Chromosomal Location of Human Ortholog: 10q23 Cellular Component: nucleus Molecular Function: DNA binding; metal ion binding; DNA-directed DNA polymerase activity; lyase activity Biological Process: nucleotide-excision repair; somatic hypermutation of immunoglobulin genes; DNA replication
Research Articles on POLL	**1.** Inactivation of polymerase (DNA directed) lambda lyase activity by 5'-(2-phosphoryl-1,4-dioxobutane prevents the enzyme from conducting polymerization following preincubation of the protein and DNA.
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