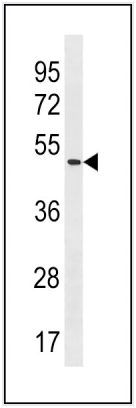
POLE2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	POLE2, Polyclonal Antibody
Full Product Name	POLE2 Antibody (C-term)
Product Gene Name	anti-POLE2 antibody
Product Synonym Names	DNA polymerase epsilon subunit 2; DNA polymerase II subunit 2; DNA polymerase epsilon subunit B; POLE2; DPE2
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human (Predicted Reactivity: Chicken)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This POLE2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 495-523 amino acids from the C-terminal region of human POLE2.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	POLE2 peptide (MBS9229038) is used for blocking the activity of POLE2 antibody (MBS9212924)
Molecular Weight	59537
Immunogen Sequence Positions	495-523
OMIM	602670
3D Structure	ModBase 3D Structure for P56282
Antigen Type	Synthetic Peptide
Applications Tested/Suitable for anti-POLE2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-POLE2 antibody	WB~~1:1000
Related Product Information for anti-POLE2 antibody	MBS9212924 is an antibody targeting POLE2. Also known as POLE2 Antibody (C-term). Reactive in Human (Predicted Reactivity: Chicken). Host: Rabbit. Participates in DNA repair and in chromosomal DNA replication.
Other Notes	Small volumes of anti-POLE2 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.



Western Blot (WB) of anti-POLE2 antibody
POLE2 Antibody (C-term) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the POLE2 antibody detected the POLE2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for POLE2. It may not necessarily be applicable to this product.

NCBI GI #	309747079
NCBI GeneID	5427
NCBI Accession #	NP_001184259.1
NCBI Related Accession #	NP_001184260.1; NP_002683.2
UniProt Primary Accession #	P56282
UniProt Secondary Accession #	O43560; A0AV55; A4FU92; A4LBB7; A6NH58; B4DDE6
UniProt Related Accession #	P56282
GenBank Nucleotide #	NM_001197330.1
NCBI Official Full Name	DNA polymerase epsilon subunit 2 isoform 2
NCBI Official Synonym Full Names	polymerase (DNA directed), epsilon 2, accessory subunit
NCBI Official Symbol	POLE2
NCBI Official Synonym Symbols	DPE2
UniProt Protein Name	DNA polymerase epsilon subunit 2
UniProt Synonym Protein Names	DNA polymerase II subunit 2; DNA polymerase epsilon subunit B
Protein Family	DNA polymerase
UniProt Gene Name	POLE2
UniProt Synonym Gene Names	DPE2
UniProt Entry Name	DPOE2_HUMAN
NCBI Protein Information	DNA polymerase epsilon subunit 2

UniProt Comments for POLE2	POLE2: Participates in DNA repair and in chromosomal DNA replication. Belongs to the DNA polymerase epsilon subunit B family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Nucleotide Metabolism - pyrimidine; EC 2.7.7.7; DNA replication; DNA repair, damage; Nucleotide Metabolism - purine; Transferase Chromosomal Location of Human Ortholog: 14q21-q22 Cellular Component: nucleoplasm; epsilon DNA polymerase complex; intracellular membrane-bound organelle Molecular Function: DNA binding; DNA-directed DNA polymerase activity Biological Process: telomere maintenance via semi-conservative replication; DNA replication initiation; nucleotide-excision repair; transcription-coupled nucleotide-excision repair; error-prone postreplication DNA repair; telomere maintenance via recombination; mitotic cell cycle; nucleotide-excision repair, DNA gap filling; DNA repair; DNA-dependent DNA replication; DNA replication; telomere maintenance; G1/S transition of mitotic cell cycle
Research Articles on POLE2	**1.** found that mutations occurred in POLE2 in 5 out of 16 cases of human colon cancer examined.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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