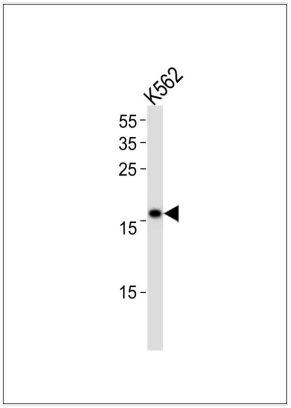
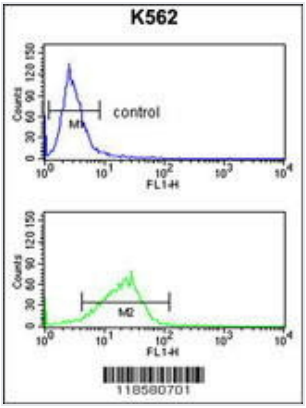
POLE3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	POLE3, Polyclonal Antibody
Full Product Name	POLE3, NT (DNA Polymerase epsilon Subunit 3, DNA Polymerase II Subunit 3, DNA Polymerase epsilon Subunit p17, Chromatin Accessibility Complex 17kD Protein, HuCHRAC17, CHRAC-17, Arsenic-transactivated Protein, AsTP, CHRAC17) (MaxLight 750)
Product Gene Name	anti-POLE3 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human POLE3.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	19kDa (170aa), confirmed by MALDI-TOF
OMIM	607267
3D Structure	ModBase 3D Structure for Q9NRF9
Immunogen	Synthetic peptide selected from the N-terminal region of human POLE3 (KLH).
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-POLE3 antibody	Antibodies; Enzymes; Polymerase
Applications Tested/Suitable for anti-POLE3 antibody	Western Blot (WB), FLISA
Application Notes for anti-POLE3 antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-POLE3 antibody	MBS6494108 is an antibody targeting POLE3. Also known as POLE3, NT (DNA Polymerase epsilon Subunit 3, DNA Polymerase II Subunit 3, DNA Polymerase epsilon Subunit p17, Chromatin Accessibility Complex 17kD Protein, HuCHRAC17, CHRAC-17, Arsenic-transactivated Protein, AsTP, CHRAC17) (MaxLight 750). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-POLE3 antibody	1. Bolognese, F., Imbriano, C. Nucleic Acids Res. 28(19), 3830-3838 (2000). 2. Li, Y., Pursell, Z.F. J. Biol. Chem. 275(30), 23247-23252 (2000).
Other Notes	Small volumes of anti-POLE3 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-POLE3 antibody
POLE3 Antibody (N-term) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the POLE3 antibody detected the POLE3 protein (arrow).



Flow Cytometry (FC/FACS) of anti-POLE3 antibody
POLE3 Antibody (N-term) flow cytometry analysis of K562 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for POLE3. It may not necessarily be applicable to this product.

NCBI GI #	224586804
NCBI GeneID	54107
NCBI Accession #	NP_059139
UniProt Primary Accession #	Q9NRF9
UniProt Secondary Accession #	Q5W0U1; Q8N758; Q8NCE5; Q9NR32
UniProt Related Accession #	Q9NRF9
GenBank Nucleotide #	NM_017443.4
NCBI Official Full Name	DNA polymerase epsilon subunit 3
NCBI Official Synonym Full Names	DNA polymerase epsilon 3, accessory subunit
NCBI Official Symbol	POLE3
NCBI Official Synonym Symbols	p17; YBL1; CHRAC17; CHARAC17
UniProt Protein Name	DNA polymerase epsilon subunit 3
UniProt Synonym Protein Names	Arsenic-transactivated protein; AsTP; Chromatin accessibility complex 17 kDa protein; CHRAC-17; HuCHRAC17; DNA polymerase II subunit 3; DNA polymerase epsilon subunit p17
Protein Family	DNA polymerase
UniProt Gene Name	POLE3
UniProt Synonym Gene Names	CHRAC17; AsTP; CHRAC-17; HuCHRAC17
UniProt Entry Name	DPOE3_HUMAN
NCBI Protein Information	DNA polymerase epsilon subunit 3
NCBI Summary for POLE3	POLE3 is a histone-fold protein that interacts with other histone-fold proteins to bind DNA in a sequence-independent manner. These histone-fold protein dimers combine within larger enzymatic complexes for DNA transcription, replication, and packaging.[supplied by OMIM, Apr 2004]

UniProt Comments for POLE3	POLE3: Forms a complex with DNA polymerase epsilon subunit CHRAC1 and binds naked DNA, which is then incorporated into chromatin, aided by the nucleosome-remodeling activity of ISWI/SNF2H and ACF1. Protein type: EC 2.7.7.7; DNA replication; Nucleotide Metabolism - purine; Transferase; Nucleotide Metabolism - pyrimidine Chromosomal Location of Human Ortholog: 9q33 Cellular Component: epsilon DNA polymerase complex; nucleus Molecular Function: protein binding; protein heterodimerization activity; sequence-specific DNA binding; DNA-directed DNA polymerase activity Biological Process: DNA replication
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