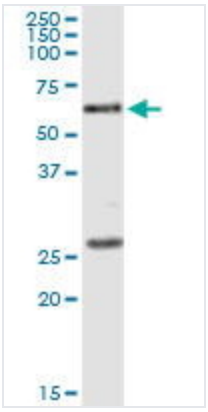
POLK Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	POLK, Monoclonal Antibody
Full Product Name	POLK (Polymerase (DNA Directed) kappa, DINB1, DINP) (Biotin)
Product Gene Name	anti-POLK antibody
Product Synonym Names	Polymerase (DNA Directed) kappa; DINB1; DINP
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	4F12
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified
Specificity	Recognizes POLK.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor
Immunogen	POLK (AAH50718, 1aa-472aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MDSTKEKCDSYKDDLLLRMGLNDNKAGMEGLDKEKINKIIMEATKGSRFYGNELKKEKQVNQRIENMMQQKAQITSQQLRKAQLQVDRFAMELEQSRNL
Conjugate	Biotin
Product Categories/Family for anti-POLK antibody	Antibodies; Enzymes; Polymerase
Applications Tested/Suitable for anti-POLK antibody	ELISA (EIA), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-POLK antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-POLK antibody	MBS6173048 is an antibody targeting POLK. Also known as POLK (Polymerase (DNA Directed) kappa, DINB1, DINP) (Biotin). Host: Mouse. Mouse m
Other Notes	Small volumes of anti-POLK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess



Immunoprecipitation (IP) of anti-POLK antibody
Immunoprecipitation of POLK transfected lysate using anti-POLK monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with POLK MaxPab rabbit polyclonal antibody.

ADDITIONAL DETAILS

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

NCBI GI #	30048187
NCBI GeneID	51426
NCBI Accession #	AAH50718
UniProt Related Accession #	Q9UBT6
NCBI Official Full Name	POLK protein
NCBI Official Synonym Full Names	DNA polymerase kappa
NCBI Official Symbol	POLK
NCBI Official Synonym Symbols	DINP; POLQ; DINB1
Protein Family	ATP-binding transport protein
NCBI Protein Information	DNA polymerase kappa
NCBI Summary for POLK	This gene encodes a member of the DNA polymerase type-Y family of proteins. The encoded protein is a specialized DNA polymerase that catalyzes translesion DNA synthesis, which allows DNA replication in the presence of DNA lesions. Human cell lines lacking a functional copy of this gene exhibit impaired genome integrity and enhanced susceptibility to oxidative damage. Mutations in this gene that impair enzyme activity may be associated with prostate cancer in human patients. [provided by RefSeq, Sep 2016]
Research Articles on POLK	**1.** pol kappa has roles both in maintaining and compromising genomic integrity. The expression of pol kappa is altered in several different cancer types, which can lead to genome instability. In addition, many cancer-associated single-nucleotide polymorphisms have been reported in the POLK gene, some of which are associated with poor survival and altered chemotherapy response
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