

# Product Datasheet

## DNA Polymerase Kappa Antibody (6F2) - Azide and BSA Free H00051426-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**H00051426-M01****DNA Polymerase Kappa Antibody (6F2) - Azide and BSA Free**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	6F2
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	IgG purified
<b>Buffer</b>	In 1x PBS, pH 7.4

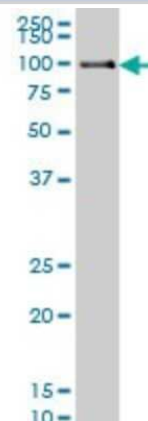
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse DNA Polymerase Kappa Antibody (6F2) - Azide and BSA Free (H00051426-M01) is a monoclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-DNA Polymerase Kappa Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	51426
<b>Gene Symbol</b>	POLK
<b>Species</b>	Human
<b>Reactivity Notes</b>	Other species not tested.
<b>Specificity/Sensitivity</b>	POLK - polymerase (DNA directed) kappa
<b>Immunogen</b>	POLK (AAH50718, 1 a.a. ~ 472 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MDSTKEKCDSYKDDLLLRMGLNDNKAGMEGLDKEKINKIIMEATKGSRYFYGNE LKKEKQVNQRIENMMQQKAQITSQQLRKAQLQVDRFAMELEQSRNLSNTIVHI DMDAFYAAVEMRDNPDKPIAVGSMMLSTSNIYHARRFGVRAAMPGFIAK RLCPQLIIVPPNFDKYRAVSKEVKEILADYDPNFMAMSLDEAYLNITKHLEERQN WPEDKRRYFIKMGSSVENDNPGKEVNLSEHERSISPLLFEESPSDVQPPGDP FQVNFEEQNNPQILQNSVVFGTSAQEVVKEIRFRIEQKTTLTASAGIAPNTMLAK VCSDKNKPNGQYQILPNRQAVMDFIKDLPIRKVSGIGKVTEKMLKALGIITCTEL YQQRALLSLLFSETSWHYFLHISLGLGSTHLTRDGERKSMSVERTFSEINKAEE QYSLCQELCSELAQDLQKERLKVLYFDMVSLVFKFFNSKMLP
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 1:500, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Knockdown Validated
<b>Application Notes</b>	Antibody reactive against recominant protein and cell lysate for Western Blot. Has also been used for immunofluorescence, immunohistochemistry (paraffin), RNAi validation and ELISA.

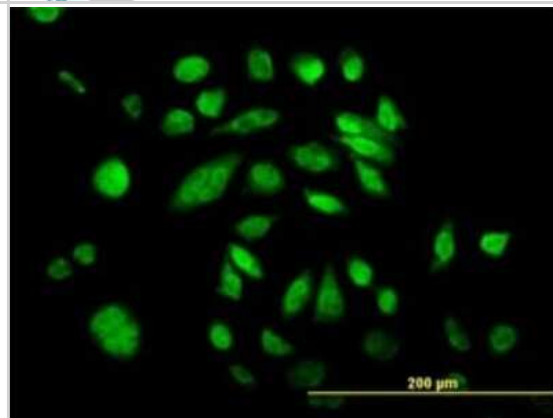


## Images

Western Blot: DNA Polymerase Kappa Antibody (6F2) [H00051426-M01] - POLK monoclonal antibody (M01), clone 6F2 Analysis of POLK expression in Hela S3 NE.



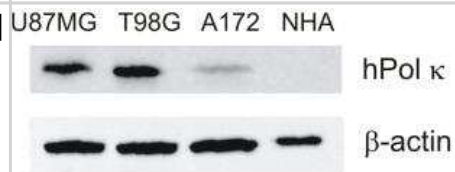
Immunocytochemistry/Immunofluorescence: DNA Polymerase Kappa Antibody (6F2) [H00051426-M01] - Analysis of monoclonal antibody to POLK on HeLa cell. Antibody concentration 10 ug/ml.



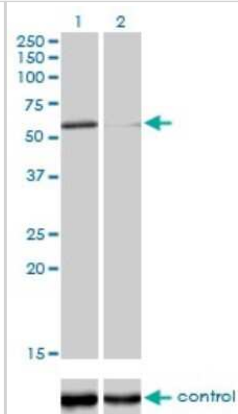
Immunohistochemistry-Paraffin: DNA Polymerase Kappa Antibody (6F2) [H00051426-M01] - Analysis of monoclonal antibody to POLK on formalin-fixed paraffin-embedded human stomach. Antibody concentration 3 ug/ml.



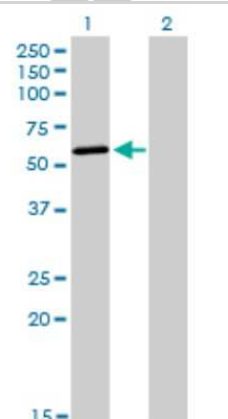
Western Blot: DNA Polymerase Kappa Antibody (6F2) [H00051426-M01] - analysis of DNA Polymerase Kappa in U87MG (lane 1), T98G (lane 2), A172 (lane 3) and normal human astrocyte (lane 4) lyses using anti-DNA Polymerase Kappa antibody. Each lane loaded with 10ug of samples. The primary antibody was used at a dilution of 1:5000 and incubated for 2 hours at room temperature in 0.1 % (w/v) BSA in PBS and 0.1% (v/v) tween-20. Image from verified customer review.



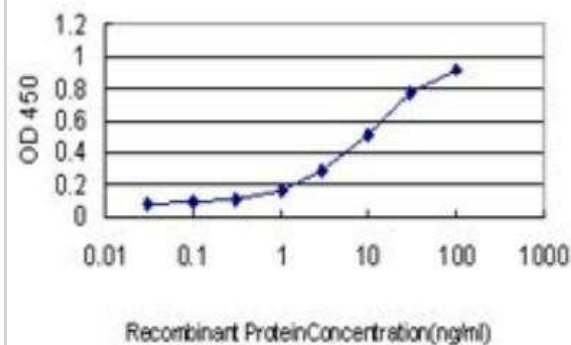
Western Blot: DNA Polymerase Kappa Antibody (6F2) [H00051426-M01]  
- Analysis of POLK over-expressed 293 cell line, cotransfected with POLK Validated Chimera RNAi ( Cat # H00051426-R01V ) (Lane 2) or non-transfected control (Lane 1). Blot probed with POLK monoclonal antibody (M01), clone 6F2 (Cat # H00051426-M01 ). GAPDH ( 36.1 kDa ) used as specificity and loading control.



Western Blot: DNA Polymerase Kappa Antibody (6F2) [H00051426-M01]  
- Analysis of POLK expression in transfected 293T cell line by POLK monoclonal antibody (M01), clone 6F2. Lane 1: POLK transfected lysate (54.1 KDa). Lane 2: Non-transfected lysate.



ELISA: DNA Polymerase Kappa Antibody (6F2) [H00051426-M01] -  
Detection limit for recombinant GST tagged POLK is approximately 0.3ng/ml as a capture antibody.



## Publications

Bostian April C L, Maddukuri Leena, Reed Megan R et al. Kynurenine Signaling Increases DNA Polymerase Kappa Expression and Promotes Genomic Instability in Glioblastoma Cells. *Chemical Research in Toxicology* 2016-01-01 [PMID: 26651356] (WB, Human)

Sekimoto T, Oda T, Kurashima K et al. Both High-fidelity Replicative and Low-fidelity Y-family Polymerases are Involved in DNA Rereplication. *Mol Cell Biol.* 2014-12-08 [PMID: 25487575]



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### **Products Related to H00051426-M01**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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