

Product Datasheet

DNA Polymerase iota Antibody NB100-175

Unit Size: 0.05 ml

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

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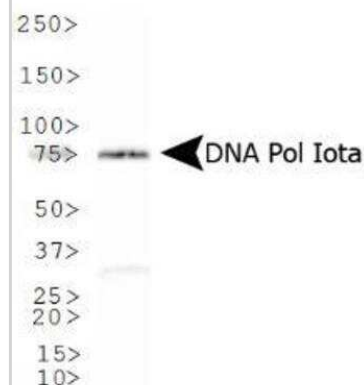
NB100-175**DNA Polymerase iota Antibody**

Product Information	
Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera
Target Molecular Weight	80 kDa
Product Description	
Host	Rabbit
Gene ID	11201
Gene Symbol	POLI
Species	Human, Mouse
Reactivity Notes	Human and mouse.
Immunogen	A synthetic peptide made to the C-terminal region of human DNA Polymerase iota between amino acids 700-740, conjugated to KLH. [UniProt# Q9UNA4]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000, Immunocytochemistry/ Immunofluorescence 1:250, Immunoprecipitation
Application Notes	This DNA Polymerase iota antibody is useful for Immunocytochemistry/Immunofluorescence and Western blot, where a band is seen at ~80 kDa. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

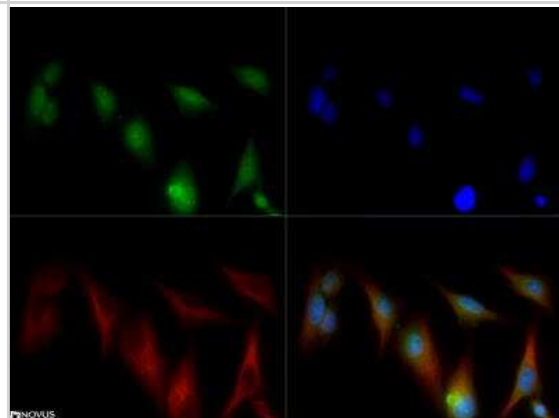


Images

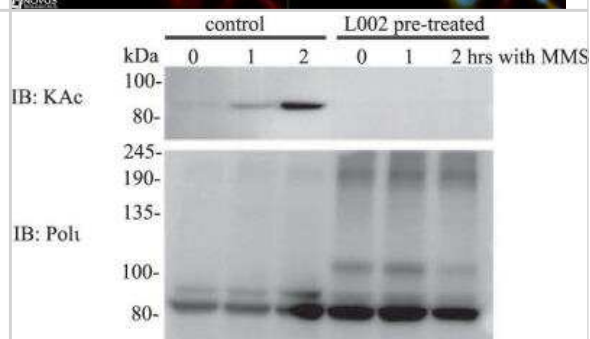
Western Blot: DNA Polymerase iota Antibody [NB100-175] - Western blot analysis of DNA Polymerase iota in NIH-3T3 whole cell lysate.



Immunocytochemistry/Immunofluorescence: DNA Polymerase iota Antibody [NB100-175] - The DNA Polymerase Iota Antibody was tested in HeLa cells at a 1:250 dilution against Dylight 488 (Green). Alpha-tubulin and nuclei were counterstained against Dylight 550 (Red) and DAPI (Blue).



Immunoprecipitation: DNA Polymerase iota Antibody [NB100-175] - Characterization of DNA Polymerase iota acetylation. Effect of a p300/CBP inhibitor, L002, on MMS-induced DNA Polymerase iota acetylation. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30886224/>) licensed under a CC-BY license.



Publications

McIntyre J, Sobolewska A, Fedorowicz M et al. DNA polymerase is acetylated in response to SN2 alkylating agents. *Sci Rep* 2019-03-18 [PMID: 30886224] (WB, Human)

Choi JH, Besaratinia A, Lee DH et al. The role of DNA polymerase iota in UV mutational spectra. *Mutat Res* 2006-07-25 [PMID: 16472831] (Human)

Ziv O, Geacintov N, Nakajima S et al. DNA polymerase {zeta} cooperates with polymerases {kappa} {iota} in translesion DNA synthesis across pyrimidine photodimers in cells from XPV patients. *PNAS*;106(28):11552-11557. 2009-01-01 [PMID: 19564618]

Diamant N, Hendel A, Vered I, et al. DNA damage bypass operates in the S and G2 phases of the cell cycle and exhibits differential mutagenicity. *Nucleic Acids Res.* 2011-09-09 [PMID: 21908406] (WB, Human)



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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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