

ARG59379 anti-POLI / DNA Polymerase Iota antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes POLI / DNA Polymerase Iota
Tested Reactivity	Hu, Ms
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	POLI / DNA Polymerase Iota
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 50-350 of Human POLI / DNA Polymerase Iota (NP_009126.2).
Conjugation	Un-conjugated
Alternate Names	RAD30B; Eta2; RAD30B; DNA polymerase Iota; EC 2.7.7.7; RAD30 homolog B

Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse testis	
Observed Size	85 kDa	

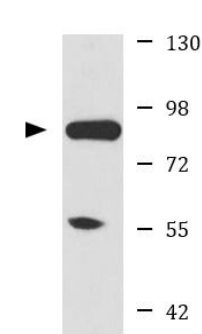
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	POLI
Gene Full Name	polymerase (DNA directed) iota
Function	Error-prone DNA polymerase specifically involved in DNA repair. Plays an important role in translesion synthesis, where the normal high-fidelity DNA polymerases cannot proceed and DNA synthesis stalls. Favors Hoogsteen base-pairing in the active site. Inserts the correct base with high-fidelity opposite an adenosine template. Exhibits low fidelity and efficiency opposite a thymidine template, where it will preferentially insert guanosine. May play a role in hypermutation of immunoglobulin genes. Forms a Schiff base with 5'-deoxyribose phosphate at abasic sites, but may not have lyase activity. [UniProt]
Calculated Mw	83 kDa
Cellular Localization	Nucleus. Note=Accumulates at replication forks after DNA damage. [UniProt]

Images



Mouse testis

ARG59379 anti-POLI / DNA Polymerase Iota antibody WB image

Western blot: 25 µg of Mouse testis lysate stained with ARG59379 anti-POLI / DNA Polymerase Iota antibody at 1:1000 dilution.