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anti-POLA1 antibody (N-Term)

2 Images



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Target Details

POLA1

Target:

Quantity:	100 μL
Target:	POLA1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This POLA1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF)
Product Details	
Product Details Immunogen:	A synthesized peptide derived from human DNA Polymerase alpha, corresponding to a region within N-terminal amino acids.
Immunogen:	within N-terminal amino acids.
Immunogen: Isotype:	within N-terminal amino acids.

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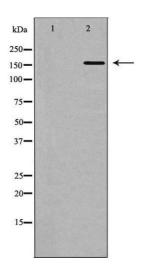
Target Details

Alternative Name:	POLA1 (POLA1 Products)	
Background:	Description: Plays an essential role in the initiation of DNA replication. During the S phase of the	
	cell cycle, the DNA polymerase alpha complex (composed of a catalytic subunit POLA1/p180, a	
	regulatory subunit POLA2/p70 and two primase subunits PRIM1/p49 and PRIM2/p58) is	
	recruited to DNA at the replicative forks via direct interactions with MCM10 and WDHD1. The	
	primase subunit of the polymerase alpha complex initiates DNA synthesis by oligomerising	
	short RNA primers on both leading and lagging strands. These primers are initially extended by	
	the polymerase alpha catalytic subunit and subsequently transferred to polymerase delta and	
	polymerase epsilon for processive synthesis on the lagging and leading strand, respectively.	
	The reason this transfer occurs is because the polymerase alpha has limited processivity and	
	lacks intrinsic 3' exonuclease activity for proofreading error, and therefore is not well suited for	
	replicating long complexes. In the cytosol, responsible for a substantial proportion of the	
	physiological concentration of cytosolic RNA:DNA hybrids, which are necessary to prevent	
	spontaneous activation of type I interferon responses (PubMed:27019227).	
	Gene: POLA1	
Molecular Weight:	169 kDa	
Gene ID:	5422	
UniProt:	P09884	
Pathways:	SARS-CoV-2 Protein Interactome	
Application Details		
Application Notes:	WB 1:500-1:2000, IF/ICC 1:100-1:500, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	1 mg/mL	
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %	
	glycerol.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	

Handling

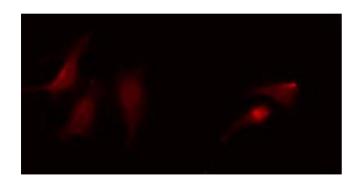
	should be handled by trained staff only.	
Storage:	-20 °C	
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.	
Expiry Date:	12 months	

Images



Western Blotting

Image 1. Western blot analysis of DNA Polymerase α expression in 293 cells, The lane on the left is treated with the antigen-specific peptide.



Immunofluorescence (fixed cells)

Image 2. ABIN6268783 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.