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Datasheet for ABIN1699041

**anti-POLD1 antibody (AA 101-200) (Alexa Fluor 647)**

## Overview

Quantity:	100 µL
Target:	POLD1
Binding Specificity:	AA 101-200
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This POLD1 antibody is conjugated to Alexa Fluor 647
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human DNA polymerase delta
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Predicted Reactivity:	Mouse,Rabbit
Purification:	Purified by Protein A.

## Target Details

Target:	POLD1
Alternative Name:	DNA polymerase delta ( <a href="#">POLD1 Products</a> )

## Target Details

Background:	<p>Synonyms: DNA polymerase delta subunit 2; DNA polymerase delta subunit p50; DNA polymerase subunit delta 2; DNA polymerase subunit delta p50; DPOD2_HUMAN; POLD 2; POLD2.</p> <p>Background: DNA replication, recombination and repair, all of which are necessary for genomic stability, require the presence of exonucleases (1). In DNA replication, these enzymes are involved in the processing of Okazaki fragments, whereas in DNA repair, they function to excise damaged DNA fragments and correct recombinational mismatches (2). These exonucleases include the family of DNA polymerases (3). DNA pol <math>\alpha</math>, <math>\beta</math>, and <math>\gamma</math> are involved in DNA replication and repair (4). DNA pol <math>\beta</math> and DNA pol <math>\gamma</math> are multisubunit enzymes, with DNA pol <math>\beta</math> consisting of two subunits p125, which interacts with the sliding DNA clamp protein PCNA, and p50 (5). The nuclear-encoded DNA pol <math>\gamma</math> is the only DNA polymerase required for the replication of the mitochondrial DNA (6). DNA pol <math>\alpha</math> is ubiquitously expressed in various tissues and mediates the cellular mechanism of damage-induced mutagenesis (7). DNA pol <math>\alpha</math> is a DNA polymerase-helicase that binds ATP and is involved in the repair of interstrand crosslinks (8).</p>
Gene ID:	5425
Pathways:	<a href="#">Telomere Maintenance</a> , <a href="#">DNA Damage Repair</a> , <a href="#">DNA Replication</a> , <a href="#">Chromatin Binding</a> , <a href="#">Synthesis of DNA</a>

## Application Details

Application Notes:	IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 $\mu$ g/ $\mu$ L
Buffer:	Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling

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Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months