

Anti-DNA polymerase alpha/POLA antibody ab31777

★★★★★ [2 Abreviews](#) [10 References](#) [1 图像](#)

概述

产品名称	Anti-DNA polymerase alpha/POLA抗体
描述	兔多克隆抗体to DNA polymerase alpha/POLA
宿主	Rabbit
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Chicken, Human, Xenopus laevis 预测可用于: Mouse, Rat, Dog 
免疫原	Synthetic peptide corresponding to Human DNA polymerase alpha/POLA aa 1100-1200. (Peptide available as ab30406)
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab31777于以下的经测试应用

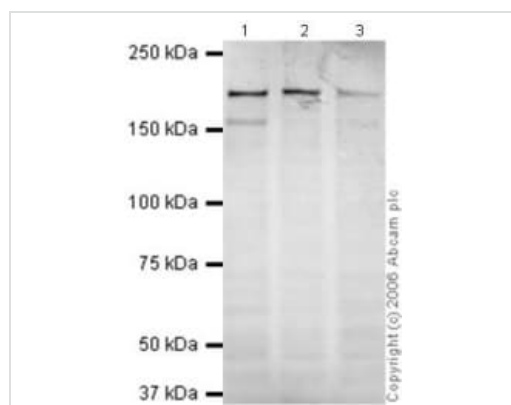
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (2)	Use a concentration of 1 - 5 µg/ml. Detects a band of approximately 180 kDa (predicted molecular weight: 166 kDa).
IHC-P		Use at an assay dependent concentration.

靶标

功能	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.
序列相似性	Belongs to the DNA polymerase type-B family.
翻译后修饰	A 165 kDa form is probably produced by proteolytic cleavage at Lys-124.
细胞定位	Nucleus.

图片



Western blot - Anti-DNA polymerase alpha/POLA antibody (ab31777)

All lanes : Anti-DNA polymerase alpha/POLA antibody (ab31777) at 1 µg/ml

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 2 : Jurkat whole cell lysate ([ab7899](#))

Lane 3 : A-431 whole cell lysate ([ab7909](#))

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG (Alexa Fluor® 680) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 166 kDa

Observed band size: 180 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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