


Product datasheet

Anti-DNA Polymerase epsilon antibody ab74308

1 References 3 Images

Overview

Product name	Anti-DNA Polymerase epsilon antibody
Description	Rabbit polyclonal to DNA Polymerase epsilon
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Guinea pig, Cow, Chimpanzee, Rhesus monkey, Gorilla, Chinese hamster, Orangutan, Bat 
Immunogen	Synthetic peptide from a region between residue 97 and 147 of human DNA polymerase epsilon subunit 3 (NP_059139.2)
Positive control	Lysate from HeLa or 293T dells

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: 8mM PBS, 60mM Citrate, 150mM Tris, pH 7-8
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab74308** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

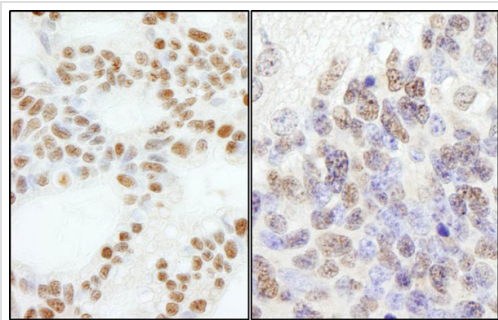
Application	Abreviews	Notes
WB		1/2000 - 1/10000. Predicted molecular weight: 16 kDa.
IP		Use at 2-5 µg/mg of lysate.

Application	Abreviews	Notes
IHC-P		1/1000 - 1/5000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

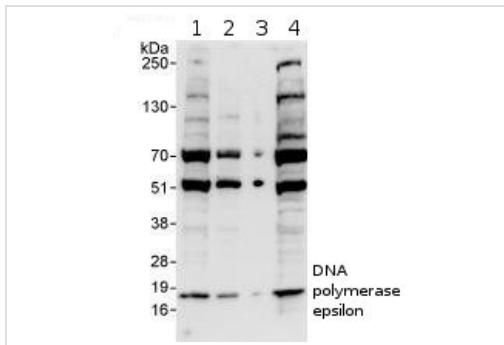
Function	Forms a complex with DNA polymerase epsilon subunit CHRAC1 and binds naked DNA, which is then incorporated into chromatin, aided by the nucleosome-remodeling activity of ISWI/SNF2H and ACF1.
Tissue specificity	Expressed in all tissues tested, including, heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
Cellular localization	Nucleus.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human ovarian carcinoma (left) and mouse teratoma (right) tissues labelling DNA Polymerase epsilon with ab74308 at 1/5000 (0.2µg/ml). Detection: DAB.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DNA Polymerase epsilon antibody (ab74308)



Western blot - Anti-DNA Polymerase epsilon antibody (ab74308)

All lanes : Anti-DNA Polymerase epsilon antibody (ab74308) at 0.4 µg/ml

Lane 1 : Whole cell lysate from HeLa cells at 50 µg

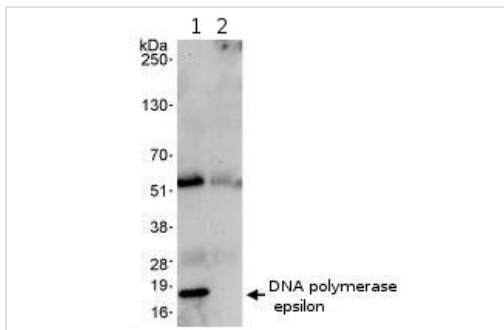
Lane 2 : Whole cell lysate from HeLa cells at 15 µg

Lane 3 : Whole cell lysate from HeLa cells at 5 µg

Lane 4 : Whole cell lysate from 293T cells at 50 µg

Predicted band size: 16 kDa

Observed band size: 18 kDa



Immunoprecipitation - Anti-DNA Polymerase epsilon antibody (ab74308)

Detection of Human DNA polymerase epsilon by immunoprecipitation of 1mg HeLa cells whole lysate, using ab74308 at 3µg/mg lysate (lane 1, 20% IP loaded) or a control IgG (lane 2, 20% IP loaded). The post-IP WB was performed using ab74308 at 1 µg/ml.

Detection: chemiluminescence with an exposure time of 30 seconds.

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