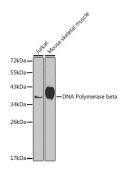
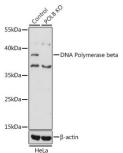


## Polymerase DNA Directed Beta (POLB) Antibody

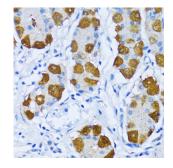
Catalogue No.:abx001412



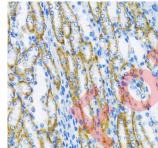
Western blot analysis of various lysates using [KO Validated] DNA Polymerase beta Antibody at 1/1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1/10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST.



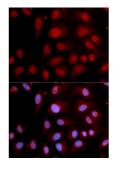
Western blot analysis of lysates from wild type (WT) and DNA Polymerase beta knockout (KO) HeLa cells, using [KO Validated] DNA Polymerase beta Antibody at 1/1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1/10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Exposure time: 30s.



Immunohistochemistry analysis of paraffin-embedded Human stomach using [KO Validated] DNA Polymerase beta Antibody at dilution of 1/100 (40x lens). Microwave antigen retrieval performed in 0.01 M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney using [KO Validated] DNA Polymerase beta Antibody at dilution of 1/100 (40x lens). Microwave antigen retrieval performed in 0.01 M PBS Buffer (pH 7.2) prior to IHC staining.



Immunofluorescence analysis of U2OS cells using [KO Validated] DNA Polymerase beta Antibody. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1/500 dilution. Blue: DAPI for nuclear staining.

## **Datasheet**

Version: 4.0.0 Revision date: 11 Jun 2025



POLB Antibody is a Rabbit Polyclonal antibody against POLB. The protein encoded by this gene is a DNA polymerase involved in base excision and repair, also called gap-filling DNA synthesis. The encoded protein, acting as a monomer, is normally found in the cytoplasm, but it translocates to the nucleus upon DNA damage. Several transcript variants of this gene exist, but the full-length nature of only one has been described to date. [provided by RefSeq, Sep 2011].

Target: Polymerase DNA Directed Beta (POLB)

Clonality: Polyclonal

Reactivity: Human, Mouse

Tested Applications: ELISA, WB, IHC, IF/ICC

Host: Rabbit

Recommended dilutions: ELISA: 1 µg/ml, WB: 1/200 - 1/1000, IHC-P: 1/50 - 1/200, IF/ICC: 1/20 - 1/200. Not tested in IHC-F.

Optimal dilutions/concentrations should be determined by the end user.

Conjugation: Unconjugated

**Immunogen:** Recombinant fusion protein containing a sequence corresponding to amino acids 1-335 of human

DNA Polymerase beta.

Isotype: IgG

Form: Liquid

**Purification:** Purified by affinity chromatography.

Storage: Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

UniProt Primary AC: P06746 (UniProt, ExPASy)

Gene Symbol: POLB

GeneID: <u>5423</u>

NCBI Accession: NP\_002681.1

**KEGG:** hsa:5423

String: <u>9606.ENSP00000265421</u>

Molecular Weight: Calculated MW: 38 kDa

Observed MW: 37 kDa

**Buffer:** PBS, pH 7.3, containing 0.02% sodium azide, 50% glycerol.

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**Concentration:** > 0.2 mg/ml

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC,

THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL

CONSUMPTION.



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