Product Name: **KD-Validated DNA Polymerase Beta Recombinant Rabbit Monoclonal Antibody**

Catalog #: **KVAb00918**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 38.2kDa

Antigen Information

Gene Name	POLB
Alternative Names	POLB; DNA Polymerase Beta; Polymerase (DNA Directed), Beta; 5'-Deoxyribose-Phosphate Lyase; Polymerase (DNA) Beta; 5'-DRP Lyase; AP Lyase; DNA Polymerase Beta Subunit; DNA Pol Beta; EC 4.2.99.18; EC 4.2.99.-; EC 2.7.7.7
Gene ID	5423.0
SwissProt ID	P06746
Immunogen	A synthesized peptide derived from human DNA polymerase beta

Background

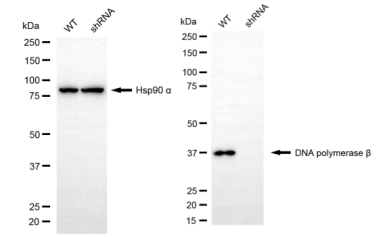
The protein encoded by this gene is a DNA polymerase involved in base excision and repair, also called gap-filling DNA

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]

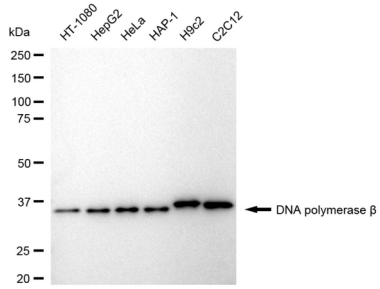
Research Area

Epigenetics and Nuclear Signaling,Neuroscience

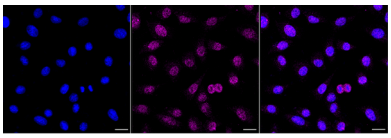
Image Data



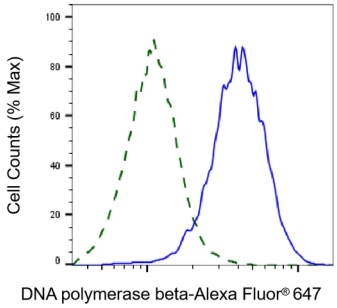
Western blotting analysis using DNA Polymerase beta antibody (KVAb00918). DNA Polymerase beta expression in wild-type (WT) and DNA Polymerase beta (POLB) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with DNA Polymerase beta antibody (KVAb00918, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using DNA polymerase beta antibody (KVAb00918). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with DNA polymerase beta antibody (KVAb00918, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with DNA polymerase beta antibody (KVAb00918, 1:1,000) . Nuclei were stained blue with DAPI; DNA polymerase beta was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and Smart Gain : Low. Scale bar, 20 µm.



Validation of DNA polymerase beta knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with DNA polymerase beta antibody (KVAb00918, 1:2,000) and analyzed using BD flow cytometer.