

POLDIP2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7626B

Specification

POLDIP2 Antibody (C-term) - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Calculated MW Antigen Region WB, FC,E <u>O9Y2S7</u> <u>O91VA6</u> Human, Mouse Rabbit Polyclonal Rabbit IgG 42033 320-349

POLDIP2 Antibody (C-term) - Additional Information

Gene ID 26073

Other Names Polymerase delta-interacting protein 2, 38 kDa DNA polymerase delta interaction protein, p38, POLDIP2, PDIP38, POLD4

Target/Specificity

This POLDIP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 320-349 amino acids from the C-terminal region of human POLDIP2.

Dilution WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

POLDIP2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

POLDIP2 Antibody (C-term) - Protein Information

Name POLDIP2 {ECO:0000303|PubMed:26984527, ECO:0000312|HGNC:HGNC:23781}



Function Involved in DNA damage tolerance by regulating translesion synthesis (TLS) of templates carrying DNA damage lesions such as 80xoG and abasic sites (PubMed:<u>24191025</u>). May act by stimulating activity of DNA polymerases involved in TLS, such as PRIMPOL and polymerase delta (POLD1) (PubMed:<u>24191025</u>, PubMed:<u>26984527</u>).

Cellular Location

Mitochondrion matrix. Nucleus Note=Mainly localizes to the mitochondrial matrix; a small fraction localizes in the nucleus.

POLDIP2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

POLDIP2 Antibody (C-term) - Images



Western blot analysis of POLDIP2 antibody (C-term) (Cat.#AP7626b) in mouse kidney tissue lysates (35ug/lane). POLDIP2 (arrow) was detected using the purified Pab.





Western blot analysis of POLDIP2 (arrow) using rabbit polyclonal POLDIP2 Antibody (C-term) (Cat. #AP7626b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the POLDIP2 gene.



POLDIP2 Antibody (C-term) (Cat. #AP7626b) flow cytometry analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

POLDIP2 Antibody (C-term) - Background

POLDIP2 is a protein that interacts with the DNA polymerase delta p50 subunit. This protein also interacts with proliferating cell nuclear antigen. Some transcripts of POLDIP2 gene overlap in a tail-to-tail orientation with the gene for tumor necrosis factor, alpha-induced protein 1 (TNFAIP1).

POLDIP2 Antibody (C-term) - References

Bogenhagen, D.F., J. Biol. Chem. 283 (6), 3665-3675 (2008) Klaile, E., J. Biol. Chem. 282 (36), 26629-26640 (2007) Cheng, X., J. Biochem. 138 (6), 673-678 (2005)