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POLDIP2 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7626c

Product Information

Application	WB, E
Primary Accession	Q9Y2S7
Other Accession	Q91VA6
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB18578
Calculated MW	42033
Antigen Region	105-133

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 105-133 amino acids from the Central region of human POLDIP2.
Dilution	WB~~1:1000 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 (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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 8oxoG and abasic sites (PubMed:24191025). May act by stimulating activity of DNA polymerases involved in TLS, such as PRIMPOL and polymerase delta (POLD1) (PubMed:24191025, PubMed:26984527).
Cellular Location	Mitochondrion matrix. Nucleus Note=Mainly localizes to the mitochondrial matrix; a small fraction localizes in the nucleus.

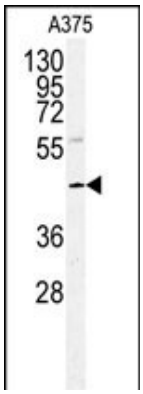
Background

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).

References

Cheng,X., Kanki,T. J. Biochem. 138 (6), 673-678 (2005)
Liu,L., Rodriguez-Belmonte,E.M. J. Biol. Chem. 278 (12), 10041-10047 (2003)

Images



Western blot analysis of POLDIP2 antibody (Center) (Cat.#AP7626c) in A375 cell line lysates (35ug/lane). POLDIP2 (arrow) was detected using the purified Pab.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.