

Webslte: www.upingBio.com

POLD2 Rabbit pAb

Catalog No	YP-Ab-18789
Isotype	lgG
Reactivity	Human,Mouse,Rat
Applications	WB
Gene Name	POLD2
Protein Name	DNA polymerase delta subunit 2 (DNA polymerase delta subunit p50)
Immunogen	Synthesized peptide derived from human POLD2
Specificity	This antibody detects endogenous levels of POLD2 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	52kD
Cell Pathway	Nucleus . Recruited to DNA damage sites within 2 hours following UV irradiation.
Tissue Specificity	
Function	Accessory component of both the DNA polymerase delta complex and the DNA polymerase zeta complex . As a component of the trimeric and tetrameric DNA polymerase delta complexes (Pol-delta3 and Pol-delta4, respectively), plays a role in high fidelity genome replication, including in lagging strand synthesis, and repair . Pol-delta3 and Pol-delta4 are characterized by the absence or the presence of POLD4. They exhibit differences in catalytic activity. Most notably, Pol-delta3 shows higher proofreading activity than Pol-delta4 . Although both Pol-delta3 and Pol-delta4 process Okazaki fragments in vitro, Pol-delta3 may also be better suited to fulfill this task, exhibiting near-absence of strand displacement activity compared to Pol-delta4 and stalling on encounter with the 5'-blocking oligonucleotides. Pol-delta3 idling process may avoid the formation of a gap, while maintaining a nick that can be readily ligated . Along with DNA polymerase kappa, DNA polymerase delta carries out approximately half of nucleotide excision repair (NER) synthesis following UV irradiation . Under conditions of DNA replication stress, required for the repair of broken replication forks through break-induced replication (BIR) . Involved in the translesion synthesis (TLS) of templates



UpingBio technology Co.,Ltd

S Tel: 400-999-8863 Emall: UpingBio@163.com

(a) WebsIte: www.upingBio.com

carrying O6-methylguanine or abasic sites performed by Pol-delta4, independently of DNA polymerase zeta (REV3L) or eta (POLH). Facilitates abasic site bypass by DNA polymerase delta by promoting extension from the nucleotide inserted opposite the lesion. Also involved in TLS as a component of the DNA polymerase zeta complex . Along with POLD3, dramatically increases the efficiency and processivity of DNA synthesis of the DNA polymerase zeta complex compared to the minimal zeta complex, consisting of only REV3L and REV7.

Background

matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images