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anti-DNA2 antibody



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Quantity:	100 μg
Target:	DNA2
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DNA2 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	DNA replication helicase 2 homolog
Isotype:	IgG
Purification:	Immunogen affinity purified
Purity:	≥95 % as determined by SDS-PAGE

Target Details

Target:	DNA2
Alternative Name:	DNA2 (DNA2 Products)
Background:	Synonyms:DNA2, DNA2L, KIAA0083 Background:Key enzyme involved in DNA replication and DNA repair in nucleus and mitochondrion. Involved in Okazaki fragments processing by
	cleaving long flaps that escape FEN1: flaps that are longer than 27 nucleotides are coated by
	replication protein A complex(RPA), leading to recruit DNA2 which cleaves the flap until it is too

short to bind RPA and becomes a substrate for FEN1. Also involved in 5'-end resection of DNA during double-strand break(DSB) repair: recruited by BLM and mediates the cleavage of 5'-ssDNA, while the 3'-ssDNA cleavage is prevented by the presence of RPA. Also involved in DNA replication checkpoint independently of Okazaki fragments processing. Possesses different enzymatic activities, such as single-stranded DNA(ssDNA)-dependent ATPase, 5'-3' helicase and endonuclease activities. While the ATPase and endonuclease activities are well-defined and play a key role in Okazaki fragments processing and DSB repair, the 5'-3' DNA helicase activity is subject to debate. According to various reports, the helicase activity is weak and its function remains largely unclear. Helicase activity may promote the motion of DNA2 on the flap, helping the nuclease function.

Molecular Weight:	127 kDa
Gene ID:	1763
UniProt:	P51530

Telomere Maintenance, DNA Damage Repair, DNA Replication, Synthesis of DNA

Application Details

Application Notes:	WB: 1:500-1:1000, IHC: 1:50-1:500, IF: 1:10-1:100
Restrictions:	For Research Use only

Handling

Pathways:

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C for 12 months (Avoid repeated freeze / thaw cycles.)
Expiry Date:	12 months