

Rabbit anti-Human DNA2 Polyclonal Antibody | anti-DNA2 antibody

DNA2 Antibody

CATALOG # AAA230203	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA
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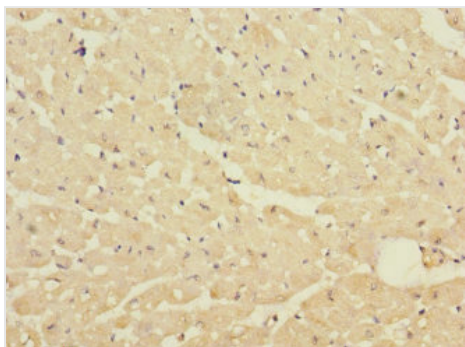
PRODUCT SYNONYMS

DNA2; Polyclonal Antibody; DNA2 Antibody; DNA replication ATP-dependent helicase/nuclease DNA2; hDNA2; DNA replication ATP-dependent helicase-like homolog; DNA2L; KIAA0083; anti-DNA2 antibody

PRODUCT SPECIFICATIONS

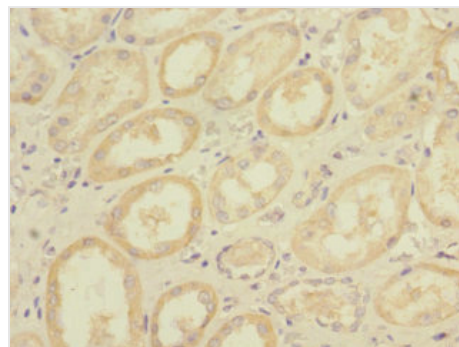
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%,Protein G purified
Form/Format	Liquid
Sequence Length	1060
Applicable Applications for anti-DNA2 antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant human DNA replication ATP-dependent helicase/nuclease DNA2 protein
Conjugation	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-138770 / sc-138771 / sc-138772
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human heart tissue AAA230203 at dilution 1:100



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human kidney tissue AAA230203 at dilution 1:100

ADDITIONAL INFORMATION

Related Product Information for anti-DNA2 antibody	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	320461728
NCBI GeneID	1763
NCBI Accession #	NP_001073918.2
NCBI GenBank Nucleotide #	NM_001080449.2
UniProt Accession #	P51530; Q2NKM1; Q5TC49; Q5TC50; Q6P455; Q6PI80; Q7Z6H9; Q8N346
Molecular Weight	119,504 Da
NCBI Official Full Name	DNA replication ATP-dependent helicase/nuclease DNA2
NCBI Official Synonym Full Names	DNA replication helicase/nuclease 2
NCBI Official Symbol	DNA2
NCBI Official Synonym Symbols	DNA2L; hDNA2
NCBI Protein Information	DNA replication ATP-dependent helicase/nuclease DNA2
UniProt Protein Name	DNA replication ATP-dependent helicase/nuclease DNA2
UniProt Gene Name	DNA2
UniProt Synonym Gene Names	DNA2L; KIAA0083; hDNA2
UniProt Entry Name	DNA2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/dna2-antibody-immunohistochemistry-elisa/230203>