

Rabbit anti-Human, Mouse WRN Polyclonal Antibody | anti-WRN antibody

WRN Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327471	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

WRN; Polyclonal Antibody; WRN Antibody; DKFZp686C2056; DNA helicase; RecQ like type 3; Exonuclease WRN; HGNC 12791; OTTHUMP00000225301; RecQ protein-like 2; RecQ-like type 3; RecQ3; RECQL2; RECQL3; Werner syndrome ATP-dependent helicase; Werner syndrome helicase; Werner syndrome protein; Werner syndrome; RecQ helicase like; WRN_HUMAN; anti-WRN antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	WRN antibody detects endogenous levels of total WRN
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1432
Applicable Applications for anti-WRN antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human WRN
Similarity	Belongs to the helicase family. RecQ subfamily.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA327471 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of WRN using RAW264.7 whole cell lysates



IHC (Immunohistochemistry)

AAA327471 at 1/100 staining Human lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-WRN antibody	Function: Multifunctional enzyme that has both magnesium and ATP-dependent DNA-helicase activity and 3'-> 5' exonuclease activity towards double-stranded DNA with a 5'-overhang. Has no nuclease activity towards single-stranded DNA or blunt-ended double-stranded DNA. Binds preferentially to DNA substrates containing alternate secondary structures, such as replication forks and Holliday junctions. May play an important role in the dissociation of joint DNA molecules that can arise as products of homologous recombination, at stalled replication forks or during DNA repair. Alleviates stalling of DNA polymerases at the site of DNA lesions. Important for genomic integrity. Plays a role in the formation of DNA replication focal centers; stably associates with foci elements generating binding sites for RP-A (By similarity). Plays a role in double-strand break repair after gamma-irradiation. Subunit Structure: Monomer, and homooligomer. May exist as homodimer, homotrimer, homotetramer and/or homohexamer. Homotetramer, or homohexamer, when bound to DNA. Interacts via its N-terminal domain with WRNIP1 (By similarity). Interacts with EXO1, PCNA and SUPV3L1. Interacts with PML (isoform PML-4). Post-translational Modifications: Phosphorylated by PRKDC. Similarity: Belongs to the helicase family. RecQ subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	110735439
NCBI GeneID	7486
NCBI Accession #	NP_000544.2
NCBI GenBank Nucleotide #	NM_000553.5
UniProt Accession #	Q14191; A1KYY9
Molecular Weight	162 kDa
NCBI Official Full Name	Werner syndrome ATP-dependent helicase
NCBI Official Synonym Full Names	Werner syndrome RecQ like helicase
NCBI Official Symbol	WRN
NCBI Official Synonym Symbols	RECQ3; RECQL2; RECQL3
NCBI Protein Information	Werner syndrome ATP-dependent helicase
UniProt Protein Name	Werner syndrome ATP-dependent helicase
UniProt Gene Name	WRN
UniProt Synonym Gene Names	RECQ3; RECQL2; RecQ3

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.