Datasheet for ABIN1711950

anti-POLI antibody (AA 51-150) (HRP)

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Overview

Quantity:	100 µL
Target:	POLI
Binding Specificity:	AA 51-150
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This POLI antibody is conjugated to HRP
Application:	ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human DNA Polymerase iota
Isotype:	IgG
Cross-Reactivity:	Rat
Predicted Reactivity:	Human,Mouse,Dog
Purification:	Purified by Protein A.

Target Details

Target:	POLI
Alternative Name:	DNA Polymerase iota (POLI Products)

Target Details

Background:	Synonyms: DNA polymerase iota, Eta 2, Eta2, POLI, POLI_HUMAN, Polymerase DNA directed iota, RAD 30B, RAD30 homolog B, RAD30B, RAD3OB. Background: DNA polymerase activity is essential for replication, repair, recombination and mutagenesis. DNA polymerases can often bypass DNA lesions that block DNA replication, thereby allowing the replication of damaged DNA. One such DNA polymerase is the distributive enzyme DNA Pol i, which is encoded by the POLI gene. POLI is located on human chromosome 18q21.2, a region often implicated in the etiology of many human cancers. At thymine templates, DNA Pol i is highly error-prone when replicating undamaged DNA in that it favors the misincorporation of guanine over the correct nucleotide, adenosine. DNA Pol i also promotes the replication of damaged DNA by misincorporating deoxynucleotides opposite DNA lesions. DNA Pol i acts sequentially with DNA Pol , which is essential for damage-induced mutagenesis, to complete the DNA lesion bypass. Therefore, replication involving DNA Pol i is likely to be highly mutagenic.
Gene ID:	11201
Pathways:	DNA Damage Repair

Application Details

Application Notes:	IHC-P 1:200-400 IHC-F 1:100-500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Handling Advice:	Do NOT add Sodium Azide! Use of Sodium Azide will inhibit enzyme activity of horseradish peroxidase.
Storage:	-20 °C

Handling

Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

