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Anti-DNA Polymerase iota Antibody

Rabbit polyclonal antibody to DNA Polymerase iota
Catalog # AP60950

Product Information

Application	WB
Primary Accession	Q9UNA4
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	83006

Additional Information

Gene ID	11201
Other Names	RAD30B; DNA polymerase iota; Eta2; RAD30 homolog B
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human DNA Polymerase iota. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	POLI
Synonyms	RAD30B
Function	Error-prone DNA polymerase specifically involved in DNA repair (PubMed:11013228, PubMed:11387224). Plays an important role in translesion synthesis, where the normal high-fidelity DNA polymerases cannot proceed and DNA synthesis stalls (PubMed:11013228, PubMed:11387224, PubMed:14630940, PubMed:15199127). Favors Hoogsteen base-pairing in the active site (PubMed:15254543). Inserts the correct base with high-fidelity opposite an adenosine template (PubMed:15254543). Exhibits low fidelity and efficiency opposite a thymidine template, where it will preferentially insert guanosine (PubMed:11013228). May play a role in hypermutation of immunoglobulin genes (PubMed:12410315). Forms a Schiff base with 5'-deoxyribose phosphate at abasic sites, but may not have lyase activity (PubMed:11251121,

PubMed:14630940).

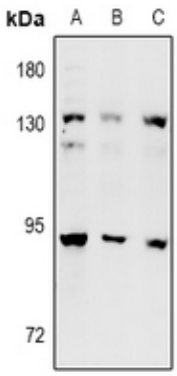
Cellular Location Nucleus. Note=Binding to ubiquitin mediates localization to replication forks after UV-induced DNA damage. {ECO:0000250|UniProtKB:Q6R3M4}

Tissue Location Ubiquitous. Highly expressed in testis.

Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human DNA Polymerase iota. The exact sequence is proprietary.

Images



Western blot analysis of DNA Polymerase iota expression in A549 (A), U87MG (B), MCF7 (C) whole cell lysates.