

POLI Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14526b

Specification

POLI Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	O9UNA4
Other Accession	NP_009126.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	83006
Antigen Region	673-701

POLI Antibody (C-term) - Additional Information

Gene ID 11201

Other Names

DNA polymerase iota, Eta2, RAD30 homolog B, POLI, RAD30B

Target/Specificity

This POLI antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 673-701 amino acids from the C-terminal region of human POLI.

Dilution

WB~~1:1000

IHC-P~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

POLI Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

POLI Antibody (C-term) - 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

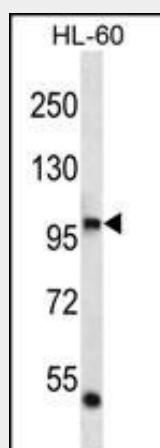
Ubiquitous. Highly expressed in testis.

POLI Antibody (C-term) - Protocols

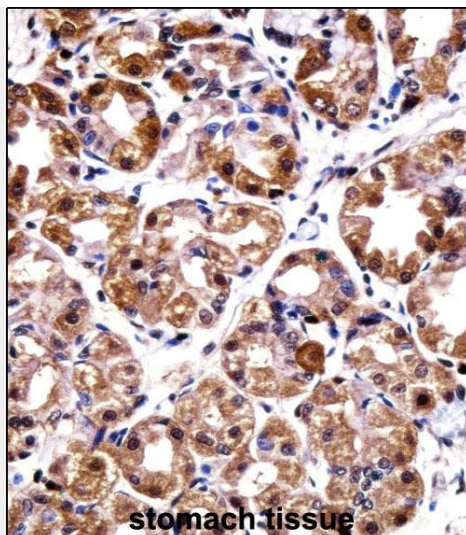
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

POLI Antibody (C-term) - Images



POLI Antibody (C-term) (Cat. #AP14526b) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the POLI antibody detected the POLI protein (arrow).



POLI Antibody (C-term) (AP14526b) immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of POLI Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

POLI Antibody (C-term) - Background

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

POLI Antibody (C-term) - References

Arora, M., et al. Leukemia 24(8):1470-1475(2010)
Thyagarajan, B., et al. Biol. Blood Marrow Transplant. 16(8):1084-1089(2010)
Kazakov, A.A., et al. Biochemistry Mosc. 75(7):905-911(2010)
Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010)
Monsees, G.M., et al. Breast Cancer Res. Treat. (2010) In press :