

POLI Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP14526b**Specification**

POLI Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9UNA4](#)**POLI Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 11201**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

POLI Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

POLI Antibody (C-term) Blocking Peptide - Images**POLI Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - 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 :