10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# POLS Antibody (Center) Blocking Peptide

**Synthetic peptide**
**Catalog # BP16915c**

## Specification

### POLS Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q5XG87

### POLS Antibody (Center) Blocking Peptide - Additional Information

**Gene ID** 11044

**Other Names**
Non-canonical poly(A) RNA polymerase PAPD7, DNA polymerase sigma, LAK-1, PAP-associated domain-containing protein 7, TRAMP-like complex polyadenylate polymerase, Terminal uridylyltransferase 5, TUTase 5, Topoisomerase-related function protein 4-1, TRF4-1, PAPD7, POLS, TRF4

**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.

### POLS Antibody (Center) Blocking Peptide - Protein Information

**Name** TENT4A (HGNC:16705)

**Function**
Terminal nucleotidyltransferase that catalyzes preferentially the transfer of ATP and GTP on RNA 3' poly(A) tail creating a heterogeneous 3' poly(A) tail leading to mRNAs stabilization by protecting mRNAs from active deadenylation (PubMed:<a href="http://www.uniprot.org/citations/23376078" target="_blank">23376078</a>, PubMed:<a href="http://www.uniprot.org/citations/30026317" target="_blank">30026317</a>). Also functions as a catalytic subunit of a TRAMP-like complex which has a poly(A) RNA polymerase activity and is involved in a post-transcriptional quality control mechanism. Polyadenylation with short oligo(A) tails is required for the degradative activity of the exosome on several of its nuclear RNA substrates. Has no terminal uridylyltransferase activity, and does not play a role in replication- dependent histone mRNA degradation via uridylation (PubMed:<a href="http://www.uniprot.org/citations/23376078" target="_blank">23376078</a>).

**Cellular Location**
Cytoplasm. Nucleus, nucleoplasm. Note=Excluded from nucleolus, weak staining detected in the cytoplasm

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

## POLS Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

## POLS Antibody (Center) Blocking Peptide - Images

## POLS Antibody (Center) Blocking Peptide - Background

The protein encoded by this gene is a DNA polymerase thatis likely involved in DNA repair. In addition, the encoded proteinmay be required for sister chromatid adhesion. Alternativelyspliced transcript variants that encode different isoforms havebeen described.

## POLS Antibody (Center) Blocking Peptide - References

Jarjanazi, H., et al. Hum. Mutat. 29(4):461-467(2008)Carson, D.R., et al. Proc. Natl. Acad. Sci. U.S.A. 98(15):8270-8275(2001)Wang, Z., et al. Science 289(5480):774-779(2000)Walowsky, C., et al. J. Biol. Chem. 274(11):7302-7308(1999)