

**TRF41 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP56371**

**Specification**

**TRF41 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">Q5XG87</a>
Reactivity	Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TRF41
Epitope Specificity	701-772/772
Isotype	IgG
<b>Purity</b>	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm {ECO:0000269 PubMed:23376078}. Nucleus, nucleoplasm {ECO:0000269 PubMed:23376078}. Note=Excluded from nucleolus, weak staining detected in the cytoplasm. Belongs to the DNA polymerase type-B-like family. Contains 1 PAP-associated domain. Component of a nuclear TRAMP-like complex, an ATP-dependent exosome regulatory complex consisting of an helicase (SKIV2L2/MTR4), an oligadenylate polymerase (PAPD5 or PAPD7), and a substrate specific RNA-binding factor (ZCCHC7 or ZCCHC8). Several TRAMP-like complexes exist with specific compositions and are associated with nuclear, or nucleolar RNA exosomes.
SIMILARITY	
SUBUNIT	
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

The protein encoded by this gene is a DNA polymerase that is likely involved in DNA repair. In addition, the encoded protein may be required for sister chromatid adhesion. Alternatively spliced transcript variants that encode different isoforms have been described. [provided by RefSeq, Jan 2010]

**TRF41 Polyclonal Antibody - Additional Information**

**Gene ID 11044****Other Names**

Terminal nucleotidyltransferase 4A, DNA polymerase sigma, LAK-1, Non-canonical poly(A) RNA polymerase PAPD7, 2.7.7.19, PAP-associated domain-containing protein 7, TRAMP-like complex polyadenylate polymerase, Terminal guanylyltransferase, 2.7.7.-, Terminal uridylyltransferase 5, TUTase 5, Topoisomerase-related function protein 4-1, TRF4-1, TENT4A (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=16705" target="\_blank">HGNC:16705</a>)

**Dilution**

<span class ="dilution\_IHC-P">IHC-P~~N/A</span><br /><span class ="dilution\_IHC-F">IHC-F~~N/A</span><br /><span class ="dilution\_IF">IF~~1:50~200</span><br /><span class ="dilution\_ICC">ICC~~N/A</span><br /><span class ="dilution\_E">E~~N/A</span>

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**TRF41 Polyclonal Antibody - 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**

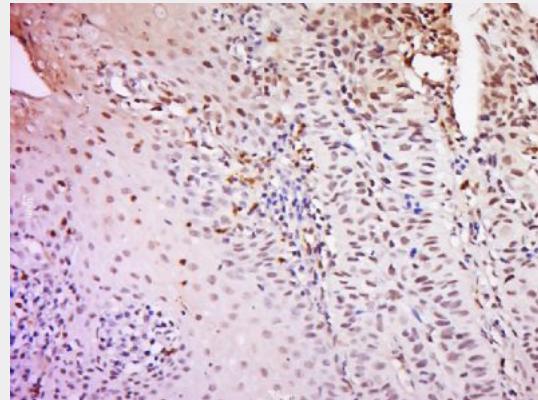
Cytoplasm. Nucleus, nucleoplasm. Note=Excluded from nucleolus, weak staining detected in the cytoplasm

**TRF41 Polyclonal Antibody - 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](#)

**TRF41 Polyclonal Antibody - Images**

Tissue/cell: human laryngeal carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-TRF41 Polyclonal Antibody, Unconjugated(bs-16716R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining