

GSPT1 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10218a

Specification

GSPT1 Antibody (N-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	P15170
Other Accession	Q8R050 , NP_001123479.1
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	2-29

GSPT1 Antibody (N-term) - Additional Information

Gene ID 2935

Other Names

Eukaryotic peptide chain release factor GTP-binding subunit ERF3A, Eukaryotic peptide chain release factor subunit 3a, eRF3a, G1 to S phase transition protein 1 homolog, GSPT1, ERF3A

Target/Specificity

This GSPT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 2-29 amino acids from the N-terminal region of human GSPT1.

Dilution

WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50
E~~Use at an assay dependent concentration.

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

GSPT1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GSPT1 Antibody (N-term) - Protein Information

Name GSPT1

Synonyms ERF3A

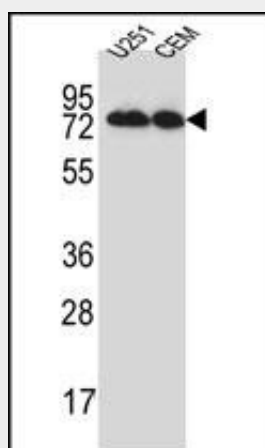
Function GTPase component of the eRF1-eRF3-GTP ternary complex, a ternary complex that mediates translation termination in response to the termination codons UAA, UAG and UGA (PubMed:[15987998](#), PubMed:[19417105](#), PubMed:[2511002](#), PubMed:[27863242](#)). GSPT1/ERF3A mediates ETF1/ERF1 delivery to stop codons. The eRF1-eRF3-GTP complex binds to a stop codon in the ribosomal A-site (PubMed:[27863242](#)). GTP hydrolysis by GSPT1/ERF3A induces a conformational change that leads to its dissociation, permitting ETF1/ERF1 to accommodate fully in the A-site (PubMed:[16777602](#), PubMed:[27863242](#)). Component of the transient SURF complex which recruits UPF1 to stalled ribosomes in the context of nonsense-mediated decay (NMD) of mRNAs containing premature stop codons (PubMed:[24486019](#)). Required for SHFL-mediated translation termination which inhibits programmed ribosomal frameshifting (-1PRF) of mRNA from viruses and cellular genes (PubMed:[30682371](#)).

GSPT1 Antibody (N-term) - Protocols

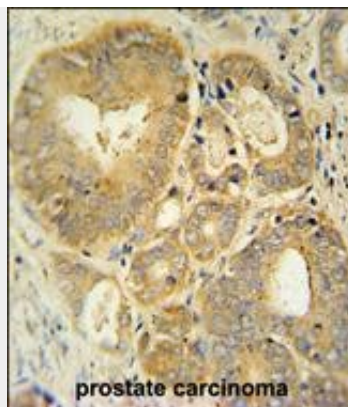
Provided below are standard protocols that you may find useful for product applications.

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

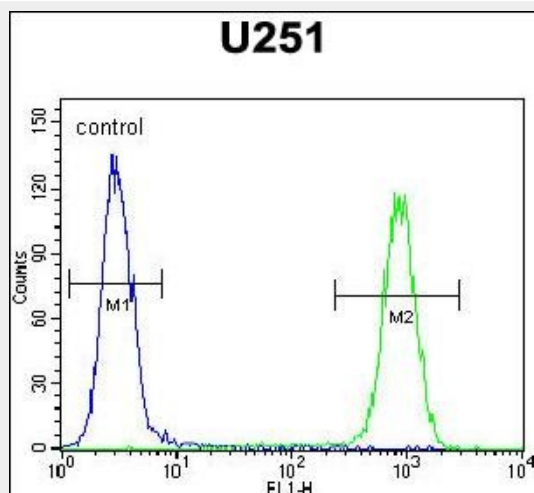
GSPT1 Antibody (N-term) - Images



GSPT1 Antibody (N-term) (Cat. #AP10218a) western blot analysis in U251,CEM cell line lysates (35ug/lane).This demonstrates the GSPT1 antibody detected the GSPT1 protein (arrow).



GSPT1 antibody (N-term) (Cat. #AP10218a) immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the GSPT1 antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



GSPT1 Antibody (N-term) (Cat. #AP10218a) flow cytometric analysis of U251 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

GSPT1 Antibody (N-term) - References

- Malta-Vacas, J., et al. Cancer Genet. Cytogenet. 195(2):132-142(2009)
- Malta-Vacas, J., et al. Oncol. Rep. 21(6):1551-1558(2009)
- Martins-de-Souza, D., et al. Eur Arch Psychiatry Clin Neurosci 259(3):151-163(2009)
- Figaro, S., et al. FEBS Lett. 582(16):2352-2356(2008)
- Chauvin, C., et al. RNA 14(2):240-245(2008)