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GSPT1 Antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15164

Product Information

Application	WB
Primary Accession	P15170
Other Accession	NM_001130006, NP_001123478
Reactivity	Human, Rat, Rabbit, Pig, Dog, Bovine
Predicted	Human, Rat, Rabbit, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55756

Additional Information

Gene ID	2935
Alias Symbol	551G9.2, ETF3A, FLJ38048, FLJ39067, GST1, eRF3a
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
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-GSPT1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	GSPT1 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

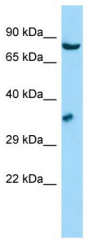
Name	GSPT1
Synonyms	ERF3A
Function	GTPase component of the eRF1-eRF3-GTP ternary complex, a ternary complex that mediates translation termination in response to the termination codons UAA, UAG and UGA (PubMed:15987998, PubMed:19417105, PubMed:2511002, PubMed:27863242). GSPT1/ERF3A mediates ETF1/ERF1 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).

References

Hoshino S.,et al.EMBO J. 8:3807-3814(1989).
Loftus B.J.,et al.Genomics 60:295-308(1999).
Martin J.,et al.Nature 432:988-994(2004).
Yamashita A.,et al.Genes Dev. 23:1091-1105(2009).
Burkard T.R.,et al.BMC Syst. Biol. 5:17-17(2011).

Images



WB Suggested Anti-GSPT1 Antibody Titration: 1.0 µg/ml
Positive Control: HepG2 Whole CellGSPT1 is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.