

GSPT1 (9M8) Rabbit Monoclonal Antibody

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Catalog # AP93738

Product Information

Application	WB
Primary Accession	P15170 , Q8R050
Reactivity	Human, Mouse
Clonality	Monoclonal
Calculated MW	55756

Additional Information

Gene ID	2935
Dilution	WB~~1:1000
Storage Conditions	-20°C

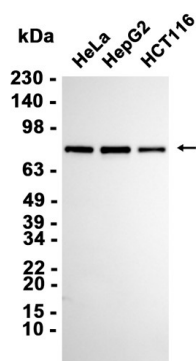
Protein Information

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).

Background

Enables translation release factor activity. Involved in regulation of translational termination. Acts upstream of or within protein methylation. Predicted to be located in cytosol. Predicted to be part of translation release factor complex. [provided by Alliance of Genome Resources, Apr 2022]

Images



Western blot analysis of extracts from
HeLa, HepG2, HCT116 cells using AP93738 at 1:1000.

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