

ERF3B Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9663c**Specification**

ERF3B Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q8IYD1
Other Accession	Q8R050 , P15170
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	68883
Antigen Region	216-245

ERF3B Antibody (Center) - Additional Information**Gene ID** 23708**Other Names**

Eukaryotic peptide chain release factor GTP-binding subunit ERF3B, Eukaryotic peptide chain release factor subunit 3b, eRF3b, G1 to S phase transition protein 2 homolog, GSPT2, ERF3B

Target/Specificity

This ERF3B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 216-245 amino acids from the Central region of human ERF3B.

Dilution

WB~~1:1000

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

ERF3B Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ERF3B Antibody (Center) - Protein Information**Name** GSPT2

Synonyms ERF3B

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:[11524954](#), PubMed:[15987998](#), PubMed:[17562865](#)). GSPT2/ERF3B mediates ETF1/ERF1 delivery to stop codons: The eRF1-eRF3-GTP complex binds to a stop codon in the ribosomal A-site (PubMed:[15987998](#)). GTP hydrolysis by GSPT2/ERF3B induces a conformational change that leads to its dissociation, permitting ETF1/ERF1 to accommodate fully in the A-site (PubMed:[15987998](#)). 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:[19417104](#)).

Cellular Location

Cytoplasm.

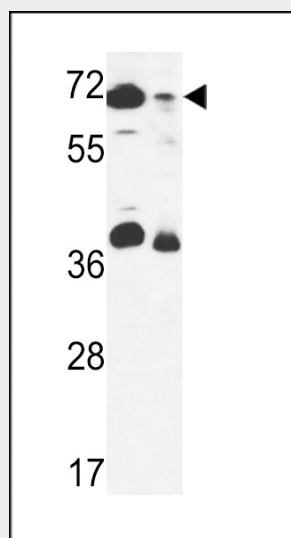
Tissue Location

Highly expressed in IUCC stage II colorectal cancer (CRC).

ERF3B Antibody (Center) - 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](#)

ERF3B Antibody (Center) - Images

ERF3B Antibody (Center) (Cat. #AP9663c) western blot analysis in 293 cell line and mouse stomach tissue lysates (35ug/lane). This demonstrates the ERF3B antibody detected the ERF3B protein (arrow).

ERF3B Antibody (Center) - Background

ERF3B encodes a GTPase that belongs to the GTP-binding elongation factor family. The encoded protein is a polypeptide release factor that complexes with eukaryotic peptide chain release factor 1 to mediate translation termination. This protein may also be involved in mRNA stability.

ERF3B Antibody (Center) - References

Cheng, Z., et al. Genes Dev. 23(9):1106-1118(2009)
Zhouravleva, G., et al. IUBMB Life 58(4):199-202(2006)
Chauvin, C., et al. Mol. Cell. Biol. 25(14):5801-5811(2005)
Hoshino, S., et al. J. Biol. Chem. 274(24):16677-16680(1999)
Hansen, L.L., et al. Cytogenet. Cell Genet. 86 (3-4), 250-251 (1999)