10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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:11524954, 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.

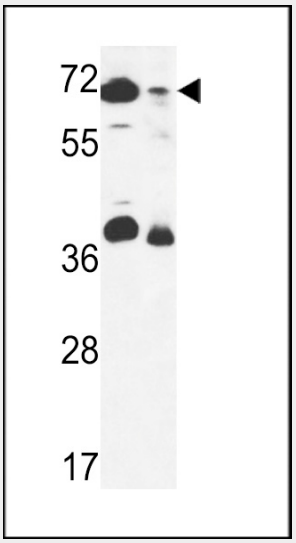
Tissue Location
Highly expressed in IUCC stage II colorectal cancer (CRC).

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 Cytomety
- 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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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)