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# ERF3B Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9663c

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | Q8IYD1 |
| **Other Accession** | Q8R050, P15170 |
| **Reactivity** | Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB24380 |
| **Calculated MW** | 68883 |
| **Antigen Region** | 216-245 |

## Additional Information

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| **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. |

## Protein Information

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| **Name** | GSPT2 |
| **Synonyms** | ERF3B |

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| **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). |

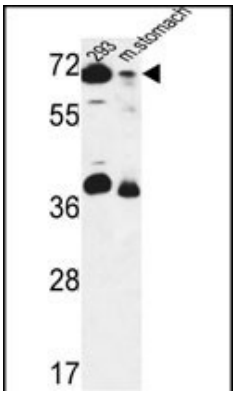
## Background

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.

## 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)


## 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).


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