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

ERF3B Rabbit pAb

Catalog # AP97326

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q8IYD1
Other Accession	Q8IYD1
Predicted	Rat, Pig, Human, Mouse, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	68883
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ERF3B
Epitope Specificity	501-600/628
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the GTP-binding elongation factor family. ERF3 subfamily.
SUBUNIT	Interacts with ETF1 (By similarity). Component of the transient SURF (SMG1-UPF1-eRF1-eRF3) complex. Interacts with UPF1 and PABPC1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene 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.[provided by RefSeq, Mar 2010]

Additional Information

Gene ID	23708
Other Names	ERF3B; GST2; ERF3B_HUMAN; GSPT2; Eukaryotic peptide chain release factor subunit 3b; G1 to S phase transition protein 2 homolog; 3.6.5.-; ERF3B_MOUSE; G1 to S phase transition 2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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).

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