

ERF3B Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9663c**Specification**

ERF3B Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q8IYD1](#)**ERF3B Antibody (Center) Blocking Peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ERF3B Antibody (Center) Blocking Peptide - 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: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) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

ERF3B Antibody (Center) Blocking Peptide - Images**ERF3B Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)