

**ZRAB3 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP10285c****Specification**

---

**ZRAB3 Antibody (Center) Blocking peptide - Product Information**

Primary Accession [Q5FWF4](#)  
Other Accession [NP\\_115519.2](#)

**ZRAB3 Antibody (Center) Blocking peptide - Additional Information**

**Gene ID** 84083

**Other Names**

DNA annealing helicase and endonuclease ZRANB3, Annealing helicase 2, AH2, Zinc finger Ran-binding domain-containing protein 3, DNA annealing helicase ZRANB3, 364-, Endonuclease ZRANB3, 31--, ZRANB3

**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.

**ZRAB3 Antibody (Center) Blocking peptide - Protein Information**

**Name** ZRANB3 {ECO:0000303|PubMed:22759634, ECO:0000312|HGNC:HGNC:25249}

**Function**

DNA annealing helicase and endonuclease required to maintain genome stability at stalled or collapsed replication forks by facilitating fork restart and limiting inappropriate recombination that could occur during template switching events (PubMed:<a href="http://www.uniprot.org/citations/21078962" target="\_blank">21078962</a>, PubMed:<a href="http://www.uniprot.org/citations/22704558" target="\_blank">22704558</a>, PubMed:<a href="http://www.uniprot.org/citations/22705370" target="\_blank">22705370</a>, PubMed:<a href="http://www.uniprot.org/citations/22759634" target="\_blank">22759634</a>, PubMed:<a href="http://www.uniprot.org/citations/26884333" target="\_blank">26884333</a>). Recruited to the sites of stalled DNA replication by polyubiquitinated PCNA and acts as a structure-specific endonuclease that cleaves the replication fork D-loop intermediate, generating an accessible 3'-OH group in the template of the leading strand, which is amenable to extension by DNA polymerase (PubMed:<a href="http://www.uniprot.org/citations/22759634" target="\_blank">22759634</a>). In addition to endonuclease activity, also catalyzes the fork regression via annealing helicase activity in order to prevent disintegration of the replication fork and the formation of double-strand breaks (PubMed:<a

href="http://www.uniprot.org/citations/22705370" target="\_blank">22705370</a>, PubMed:<a href="http://www.uniprot.org/citations/22704558" target="\_blank">22704558</a>).

**Cellular Location**

Nucleus. Chromosome. Note=Following DNA damage, recruited to sites of DNA damage and stalled replication forks by polyubiquitinated PCNA (PubMed:22704558, PubMed:22705370, PubMed:22759634)

**ZRAB3 Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**ZRAB3 Antibody (Center) Blocking peptide - Images****ZRAB3 Antibody (Center) Blocking peptide - References**

Rose, J. Phd, et al. Mol. Med. (2010) In press :