



Rabbit Anti-ZRANB3 antibody

SL16407R

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| Product Name: | ZRANB3 |
| Chinese Name: | ZRANB3蛋白抗体 |
| Alias: | 4933425L19Rik; MGC105033; MGC75012; OTTHUMP00000197449; Zinc finger Ran-binding domain-containing protein 3; Zinc finger, RAN- binding domain containing 3; ZRAB3_HUMAN; Zranb3. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Dog,Cow, |
| Applications: | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 123kDa |
| Cellular localization: | The nucleus |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human ZRANB3:981-1079/1079 |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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. |
| PubMed: | PubMed |
| Product Detail: | Zinc finger Ran-binding domain-containing protein 3 (ZRANB3) is a 1079 amino acid gene product that belongs to the SNF2/RAD54 helicase family. Other family members are known to be involved in DNA repair and mitotic recombination. This family of proteins often plays an active role in recombination processes in cooperation with other members of the RAD52 epistasis group. The ZRANB3 product contains one helicase |

ATP-binding domain, one helicase C-terminal domain and one RanBP2-type zinc finger. RanBP2-type zinc fingers mediate the helicase binding to RNA. Similar to other Ran-binding zinc finger proteins, ZRANB3 likely acts as a splice factor for alternative splicing events of pre-mRNA transcripts. ZRANB proteins may also interfere with constitutive 5'-splice site selection.

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. 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. 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.

Subunit:

Interacts (via PIP-box and RanBP2-type zinc finger) with PCNA (when PCNA is polyubiquitinated via 'Lys-63'-linked polyubiquitin).

Subcellular Location:

Nucleus. Chromosome. Note=Following DNA damage, recruited to sites of DNA damage and stalled replication forks by polyubiquitinated PCNA.

Similarity:

Belongs to the SNF2/RAD54 helicase family.
Contains 1 helicase ATP-binding domain.
Contains 1 helicase C-terminal domain.
Contains 1 RanBP2-type zinc finger.

SWISS:

Q5FWF4

Gene ID:

84083

Database links:

[Entrez Gene: 84083](#) Human

[SwissProt: Q5FWF4](#) Human

[Unigene: 658422](#) Human

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| | <p>Important Note:</p> |
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This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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