

CAB4389

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## Product Information

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|---------------------|---------|----------------------|--------|--------------------|--------------|
| <b>Product SKU:</b> | CAB4389 | <b>Gene ID:</b>      | 7153   | <b>Size:</b>       | 20uL, 100uL  |
| <b>Clone No:</b>    | ARC0994 | <b>Host Species:</b> | Rabbit | <b>Reactivity:</b> | Human, Mouse |

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## Additional Information

|                       |                             |                   |              |
|-----------------------|-----------------------------|-------------------|--------------|
| <b>Observed MW:</b>   | 190kDa                      | <b>Conjugate:</b> | Unconjugated |
| <b>Calculated MW:</b> | 174kDa/178kDa/179kDa/183kDa | <b>Isotype:</b>   | IgG          |

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## Immunogen Information

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|------------------------------|--|
| <b>Background:</b>           | This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This nuclear enzyme is involved in processes such as chromosome condensation, chromatid separation, and the relief of torsional stress that occurs during DNA transcription and replication. It catalyzes the transient breaking and rejoining of two strands of duplex DNA which allows the strands to pass through one another, thus altering the topology of DNA. Two forms of this enzyme exist as likely products of a gene duplication event. The gene encoding this form, alpha, is localized to chromosome 17 and the beta gene is localized to chromosome 3. The gene encoding this enzyme functions as the target for several anticancer agents and a variety of mutations in this gene have been associated with the development of drug resistance. Reduced activity of this enzyme may also play a role in ataxia-telangiectasia. |
| <b>Recommended Dilution:</b> | WB, 1:500 - 1:1000   |
| <b>Synonyms:</b>             | TOP2; TP2A; TOP2A; TOP2alpha; DNA topoisomerase II alpha (TOP2A)   |
| <b>Purification Method:</b>  | Affinity purification  |
| <b>Immunogen:</b>            | A synthetic peptide corresponding to a sequence within amino acids 1432-1531 of human DNA topoisomerase II alpha (TOP2A) (P11388).   |
| <b>Storage:</b>              | Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH 7.3.  |