

TOP2A (Human) Cell-Based ELISA Kit

Catalog # KA3531

Size 1 Kit

Specification

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| Product Description | TOP2A (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative determination of TOP2A expression in cultured cells. |
| Suitable Sample | Attached Cell, Loosely Attached Cell, Suspension Cell |
| Label | HRP-conjugated |
| Detection Method | Colorimetric |
| Assay Type | Qualitative |
| Reactivity | Human |
| Regulation Status | For research use only (RUO) |
| Storage Instruction | Store the kit at 4°C. |

Applications

- Qualitative

Gene Info — TOP2A

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|-------------------------|-------------------------------------|
| Entrez GeneID | 7153 |
| Gene Name | TOP2A |
| Gene Alias | TOP2, TP2A |
| Gene Description | topoisomerase (DNA) II alpha 170kDa |
| Omim ID | 126430 |

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic state 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. [provided by RefSeq]

Other Designations

DNA topoisomerase II, 170 kD|DNA topoisomerase II, alpha isozyme|topoisomerase (DNA) II alpha (170kD)

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Leukemia](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Recurrence](#)
- [Stomach Neoplasms](#)