

Anti-TOP2A-Specific Antibody (Monoclonal, 31T58)

Catalog Number: M00953-3

About TOP2A

The human topoisomerase II enzyme is encoded by a single-copy gene which is mapped to 17q21-q22. The TOP2A gene spans approximately 30 kb and contains 35 exons. Furthermore, DNA topoisomerases are enzymes that control and alter the topologic states of DNA in both prokaryotes and eukaryotes. Topoisomerase II from eukaryotic cells catalyzes the relaxation of supercoiled DNA molecules, catenation, decatenation, knotting, and unknotting of circular DNA. It appears likely that the reaction catalyzed by topoisomerase II involves the crossing-over of 2 DNA segments. There are about 100,000 molecules of topoisomerase II per HeLa cell nucleus, constituting about 0.1% of the nuclear extract¹. DNA topoisomerase II- α is associated with the pol II holoenzyme and is a required component of chromatin-dependent coactivation. Specific inhibitors of topoisomerase II blocked transcription on chromatin templates, but did not affect transcription on naked templates. Addition of purified topoisomerase II- α reconstituted chromatin-dependent activation activity in reactions with core pol II₂.

Overview

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| Product Name | Anti-TOP2A-Specific Antibody (Monoclonal, 31T58) |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-TOP2A-Specific Antibody (Monoclonal, 31T58) catalog # M00953-3. Tested in WB, IHC, IP applications. This antibody reacts with Human, Mouse, Rat. |
| Application | IP, IHC, WB |
| Clonality | Monoclonal 31T58 |
| Formulation | Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required. |
| Storage Instructions | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles. |
| Host | Rabbit |
| Uniprot ID | P11388 |

Technical Details

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| Immunogen | Synthetic peptide within Human Topoisomerase II α 1484-1529. |
| Form | Liquid |
| Concentration | 500 ug/ml |

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|---------------------|---|
| Purification | Protein A affinity purified. |
| Suggested Dilutions | Western blot, 1:500-2000 Immunohistochemistry, 1:50-200 ImmunoPrecipitation, 1:50 |

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For Research Use Only. Not for use in diagnostic procedures.