Topoisomerase II Alpha Monoclonal Mouse Antibody (TOP2A/1362)

Product Description

This antibody recognizes a 170 kDa protein, which is identified as topoisomerase IIa. It shows no cross-reaction with topoisomerase II β or topoisomerase I. Topo IIa plays important roles in synthesis and transcription of DNA as with topoisomerase II or topoisomerase I. Topo II a plays important roles in synthesis and transcription of DNA as well as chromosomal segregation during mitosis. It is reported to be a sensitive and specific marker of late S-, G2- & M-phases in transformed and developmentally regulated normal cells. Topo IIa is also implicated in drug resistance of tumor cells. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors. **Stock status**: Because Biotium offers a large number of unit to one week for CF® dye and bioting primary antibody conjugates may be made to order. Typical lead times are un to one week for CF® dye and bioting primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order. Catalog number key for antibody number 1362, Anti-Topoisomerase-II-Alpha (TOP2A/1362)

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Call us: 800-304-5357 Email: btinfo@biotium.com

| Product attributes | | | |
|------------------------------------|--|--|--|
| Antibody number | #1362 | | |
| Antibody reactivity | Topoisomerase-II-Alpha | | |
| (target) Antibody type | Primary | | |
| Host species | Mouse | | |
| Clonality | Monoclonal | | |
| Clone | TOP2A/1362 | | |
| Isotype | IgG2b, kappa | | |
| Molecular weight | 170 kDa | | |
| Synonyms | ATP hydrolyzing DNA topoisomerase II alfa; DNA gyrasse; DNA topoisomerase (ATP hydrolyzing); DNA topoisomerase 2 alpha; DNA topoisomerase II 170kD; DNA topoisomerase II 170kD; DNA topoisomerase II alpha; DNA Topoisomerase II alpha; DNA Topoisomerase DNA II alpha 170kDa; TP2A | | |
| Human gene symbol | TOP2A | | |
| Entrez gene ID | 7153 | | |
| SwissProt | P11388 | | |
| Unigene | 156346 | | |
| Immunogen | Recombinant human Topoisomerase II alpha fragment (aa1352-1493) (exact sequence is proprietary) | | |
| Verified antibody applications | IF (verified), IHC (FFPE) (verified), WB (verified) | | |
| Antibody target cellular | Nucleus | | |
| localization Species reactivity | Human | | |
| Antibody application notes | Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 1-2 ug/mL, Immunohistology (formalin): 0.5-1 ug/mL, Ug/mL; Detail of the secondary of the s | | |
| Positive control | HeLa Cells or Tonsil | | |
| Shipping condition | Room temperature | | |
| Storage Conditions | Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C | | |
| Shelf life | Guaranteed for at least 24 months from date of receipt when stored as recommended | | |
| Regulatory status | For research use only (RUO) | | |
| Antibody/conjugate formulation | Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide | | |
| | | | |

| Antibody # prefix BNC04 | Conjugation CF®405S | Ex/Em (nm) 404/431 | Laser line 405 | Detection channel DAPI (microscopy), AF405 | Dye Features CF®405S Features |
|----------------------------|------------------------|-----------------------|-------------------|--|----------------------------------|
| BNC88 | CF®488A | 490/515 | 488 | GFP, FITC | CF®488A Features |
| BNC68 | CF®568 | 562/583 | 532, 561 | RFP, TRITC | CF®568 Features |
| BNC94 | CF®594 | 593/614 | 561 | Texas Red® | CF®594 Features |
| BNC40 | CF®640R | 642/662 | 633-640 | Cy®5 | CF®640R Features |
| BNC47 | CF®647 | 650/665 | 633-640 | Cy®5 | CF®647 Features |
| BNCB | Biotin | N/A | N/A | N/A | |
| BNUB | Purified | N/A | N/A | N/A | |
| BNUM | Purified, BSA-free | N/A | N/A | N/A | |

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