



Product Description

A rabbit polyclonal antibody was prepared against a 16 residue oligopeptide derived from the carboxy terminal region of human topoisomerase II. The purity of the peptide was greater than 95% as determined by HPLC and mass spectral analysis. Approximately 10 mg of purified peptide were coupled (through a terminal cysteine thiol) to KLH with a heterobifunctional cross-linking agent MBS at a ratio of 1 part peptide to 1 part KLH. The antibody titer was determined by ELISA to be > 1:104. Immunoaffinity gel chromatography and antibody purification steps were carried out to obtain a homogeneously purified IgG. This antibody is ideal for either Western blotting applications or immunofluorescent (IF) studies on the cytological localization of Human Topoisomerase IIa (p170 form). The dilutions of antibody required for specific detection should be optimized for the investigator's particular system (cell line being used for example); however, we supply the antibody reagent along with a detailed protocol for immunofluorescence using a typical human cell line (optimized for HeLa cells). A second reagent, the 16 -mer oligopeptide (TG2011-2) is also available on-line at www.topogen.com. This allows the investigator to perform proper controls for absorbing the antibody to demonstrate specificity in IF experiments. The IF protocol has been optimized for tumor cells that possess relatively high levels of topo II. In addition, we offer a Western blot marker set for topo II (TG2011-3) to unambiguously locate the position of the 170 kDa topo II.

Vial Contents

TG2011-1 contains 250 units of affinity purified rabbit antibody in Tris Buffered Saline at 2.5 units/ul (100 ul total volume).

Storage and Shipping Conditions

The antibody is stable at room temperature but should be stored at -20°C. The antibody is shipped at ambient temperature.

Unit Definition

The antibody concentration is in Western blotting units; one unit corresponds to a 1:1000 dilution of the antibody required to make 1 ml of diluted probe for a routine Western blot. Thus, 10 units of antibody will make 10 ml of diluted probe.

Product Application and Disclaimer

This product is not licensed or approved for administration to humans or animals. It may be used with experimental animals only. The product is for in vitro research diagnostic studies only. The product is non-infectious and non-hazardous to human health. This information is based on present knowledge and does not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. TopoGEN, Inc. shall not be held liable for product failure due to mishandling and incorrect storage by end user. TopoGEN's liability is limited to credit or product replacement.