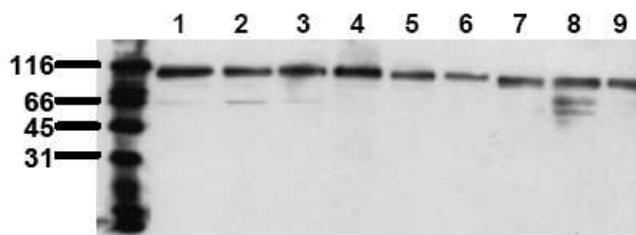


PRODUCT ANALYSIS SHEET

Catalog Number:	44321M
Volume:	50 µL
Clone Number:	23B11
Isotype:	IgG1 (mouse)
Form of Antibody:	Mouse monoclonal immunoglobulin in PBS, pH 7.3, with PEG and Sucrose
Preservative:	0.09% sodium azide (Caution: sodium azide is a poisonous and hazardous substance. Handle with care and dispose of properly.)
Purification:	The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.
Immunogen:	Peptide containing amino acid residues 699-725, conjugated to KLH.
Target Summary:	DNA Topoisomerases catalyze strand breakage of DNA molecules. During DNA cleavage, a tyrosyl residue of the enzyme breaks the DNA strand by forming a covalent phosphotyrosine residue. Rejoining of the DNA strands occurs by a second transesterification reaction.
Specificity:	This Mab specifically recognizes Topoisomerase 1 (90 kDa).
Species Reactivity:	Human
Applications:	The antibody is suitable for Western blotting. Other applications may be possible but have not been tested.
Suggested Working Dilutions:	Immunoblotting: 0.5 µg/mL for HRP/ECL detection. The optimal antibody concentration should be determined empirically for each specific application.
Recommended Positive Control:	Cell lysate from untreated HepG2 cells.
Storage:	Upon arrival, we recommend a brief centrifugation before opening to settle vial contents. Then, apportion the antibody into working aliquots and store at -20°C. Avoid repeated freeze / thaw cycles.
Expiration Date:	Expires one year from date of receipt when stored as instructed.










Western Blotting

Whole cell lysates of serum starved HeLa (1), HepG2 (2), HEK293 (3), SH-SY5Y (4), MDCK (5) PC12 (6), CMT 93 (7), Neuro 2A (8) and 3T3 (9) tumor cells (approximately 20,000 cells per lane) were resolved by SDS-PAGE and transferred to PVDF. The membrane was blocked with a casein/Tween 20 buffer, then incubated with the Mab at 0.5 µg/mL for 1 hour at room temperature. After washing, the membrane was incubated with an anti-mouse HRP-conjugated secondary antibody and signals were detected using an ECL detection method (exposure time: 30 seconds).

The data show that the Mab recognizes various levels of endogenous Topoisomerase 1 in these cell systems.

Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

PI44321M

MAN0007942 Rev 1.00 Effective Date: 27 MAR 2013

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

Manufacturing site: 7335 Executive Way | Frederick, MD 21704 | Toll Free in USA 800.955.6288 www.lifetechnologies.com

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