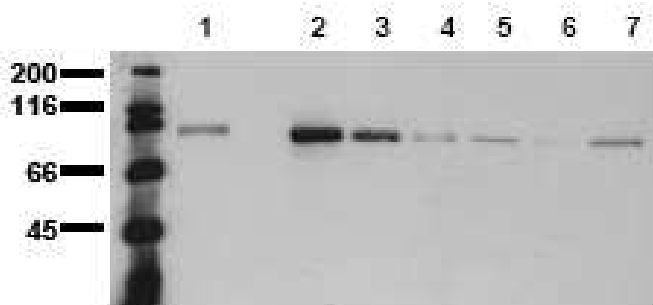


PRODUCT ANALYSIS SHEET

Catalog Number:	44207M
Volume:	50 μ L
Clone Number:	8E4
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 27-37, conjugated to KLH.
Target Summary:	The α -, β - and γ -catenins are cytoplasmic proteins mediating the interaction of Ca ²⁺ -dependent transmembrane adhesion molecules (cadherins) with the cytoskeletal network. The direct interaction of β -catenin with the cytoplasmic domain of cadherins plays a crucial role for cell-cell adhesion and signal transmission between neighboring cells. Recent studies indicate that β -catenin may also play a role in tumorigenesis since it forms complexes with the tumor suppressor gene product APC. β -catenin directly interacts and constitutively activates transcription factors of the TCF/LEF gene family. Thus it is proposed that β -catenin plays a dual role not only in the maintenance and regulation of cell-cell interactions but also in the regulation of gene activity.
Specificity:	The Mab specifically interacts with nuclear dephosphorylated β -catenin (90 kDa).
Species Reactivity:	Human, mouse and dog.
Applications:	The antibody is suitable for Western blotting, ELISA, Immunocytochemistry and Immunohistochemistry. Other applications may be possible but have not been tested.
Suggested Working Dilutions:	Immunoblotting: 0.5 μ g/mL for HRP/ECL detection; ELISA: 0.05 μ g/mL; Immunocytochemistry: 1-10 μ g/mL. The optimal antibody concentration should be determined empirically for each specific application.
Recommended Positive Control:	Cell lysate from LiCl-treated SW480 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

Extracts of serum starved A431 (1), SW480 (2), SW620 (3), HT29 (4), MCF-7 (5), MDA-MB231 (6) and T47D (7) 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 β-catenin 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		

PI44207M

MAN0007941 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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