Mouse Monoclonal Antibody to

β-Catenin (phospho-Tyr 86)

clone 24E1

0123-100BIOTIN/b-CAT-24E1 Order No.:

Size (µg) Lot No.:

100 0123S





01/230207F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
lgG1	human, mouse, dog	WB	90 kDa	SW480	phosphotyrosine 86 D G Q pY A M T	phosphopeptide conjugated to hemocyanin
					Distant Distan	

Biotinylated

BIOMOL GmbH Waidmannstr. 35

22769 Hamburg info@biomol.de

www.biomol.de

Fax:

Background and Specificity:

The α -, β - and γ -catenins are cytoplasmic proteins mediating the interaction of Ca²⁺-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 neighbouring 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 maintainance and regulation of cell-cell interactions but also in the regulation of gene activity. Additionally, β-catenin is a substrate of both receptor and non-receptor tyrosine kinases. Tyrosine 86 and tyrosine 654 are substrates of EGF receptor and src family kinases while tyrosine 142 is a substrate of fer tyrosine kinase.

Mab β -CAT-24E1 specifically recognizes β -catenin phosphorylated at tyrosine 86 at 90 kDa.

Purification:	The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.		
Formulation:	liquid; 0.5 mg/ml in PBS/0.09% Na-Azide/PEG and Sucrose		
Reconstitution:			
Stability:	Aliquote and freeze in liquid nitrogen; antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months. Avoid repeated freeze / thaw cycles.		
Positive Control:	#0802: Cell lysate from pervanadate-treated SW480 cells.		
Immunoblotting:	1 μg/ml for HRPO/ECL detection Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.		

Immunoprecipitation:	ND	
Immunocytochemistry:	ND	
ELISA:	use at 0.05 µg/ml	

All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.

Related Products

mab to b-catenin (N-Term/Exon2) #0003-100/b-CAT-7D11

mab to b-catenin (Exon3) #0004-100/b-CAT-9G2

mab to b-catenin (Core) #0005-100/b-CAT-9G10

mab to b-catenin (C-Term/Exon14) #0002-100/b-CAT-7D8

mab to b-catenin (C-Term) #0006-100/b-CAT-10H8

mab to dephospho-b-catenin (aa35-50) #0051-100/b-CAT-7A7

mab to dephospho-b-catenin (aa27-37) #0052-100/b-CAT-8E4

mab to phospho-b-catenin (pY86) #0123-100/b-CAT-24E1

mab to phospho-b-catenin (pY654) #0159-100/b-CAT-1B11

For monoclonal antibodies against alpha-catenin, LEF. TFF3, E-, M- and N-Cadherin, please refer to our website at www.nanotools.de