

Mouse Monoclonal Antibody to

β -Catenin (phospho-Tyr 86)

clone 24E1

Order No.: 0123-100/b-CAT-24E1
Size (μ g) 100
Lot No.: 0123S



www.nanotools.de

orders & support:

email: info@nanotools.de
 phone: +49-7641-455 670
 fax: +49-7641-455 671

04/040613F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse, dog	WB	90 kDa	SW480	phosphotyrosine 86 D G Q pY A M T	phosphopeptide conjugated to hemocyanin

Background and Specificity:

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 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 maintenance 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.

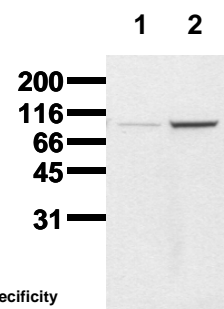
Mab β -CAT-24E1 specifically recognizes β -catenin phosphorylated at tyrosine 86 at 90 kDa.

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

Purification:	The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.
Formulation:	lyophilized from 1 ml PBS / 0.09 % Na-azide / PEG and Sucrose
Reconstitution:	Reconstitute with 1 ml H ₂ O (15 min, RT).
Stability:	For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted 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 μ g/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 μ g/ml



Phosphospecificity

Whole cell extracts of control (1) or pervanadate treated (2) SW480 tumor cells were applied to SDS-PAGE (ca 20.000 cells per lane) and transferred to a PVDF membrane. The immunoblot was probed with mab b-Cat-24E1 (0.5 μ g/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).

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