

Mouse Monoclonal Antibody to

β-Catenin

clone 8E4

Order No.: 0052-100/b-CAT-8E4

Size (µg) 100

Lot No.: 0052S



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Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse, dog	WB, ELISA, ICC, IHC (PS)	90 kDa	SW480		peptide conjugated to KLH

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.

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 phospho-b-catenin (pY86)

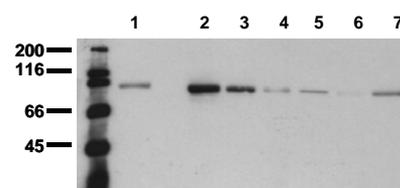
#0123-100/b-CAT-24E1

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 2 x PBS / 0.1 % 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:	#0803: Cell lysate from LiCl - treated SW480 cells.
Immunoblotting:	0.5 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:	use at 1 - 10 µg/ml
ELISA:	use at 0.05 µg/ml



Detection of endogenous β-Catenin

Whole cell lysates of serum starved tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab b-Cat-8E4 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).

lane 1: A431; lane 2: SW480; lane 3: SW620; lane 4: HT29; lane 5: MCF7; lane 6: MDA-MB231; lane 7: T47D

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