

Mouse Monoclonal Antibody to

β-Catenin

clone 8E4

Order No.: 0052-100/b-CAT-8E4
Size (µg) 100
Lot No.: 0052S



03/291107F

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:

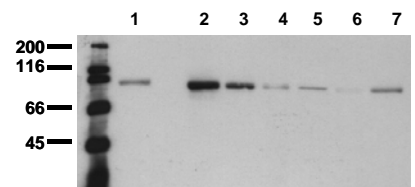
The α-, β- and γ-catenins are cytoplasmic proteins mediating the interaction of Ca²⁺-dependent transmembrane adhesion molecules (cadherins) with the cytoskeletal network. The direct interaction of β-catenin with the cytoplasmic domain of cadherins plays a crucial role for cell-cell adhesion and signal 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 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 H₂O (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.