

Mouse Monoclonal Antibody to

β -Catenin (core)

clone 9G10

Order No.: 0005-100/b-CAT-9G10
Size (μ g) 100
Lot No.: 0005S



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02/140307F

| Isotype | Species Reactivity | Applications | Mol. Weight | Ref.Cell Line | Epitope | Immunogen |
|---------|--------------------|------------------------------|-------------|---------------|--------------------------|--------------------------|
| IgG2b | human, mouse, dog | WB, ELISA, IP, ICC, IHC (PS) | 90 kDa | SW480 | core (armadillo repeats) | recombinant beta-Catenin |

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.

Mab β -CAT-9G10 specifically interacts with the core region (armadillo repeats) of β -catenin.

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 (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 2 x PBS / 0.09 % 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.

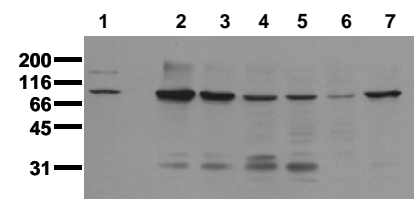
Positive Control: #0801: Cell lysate from untreated SW480 cells.

Immunoblotting: 0.5 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: use at 1 - 10 μ g per 10⁶ vanadate treated A431 cells

Immunocytochemistry: use at 0.1-1 μ g/ml

ELISA: use at 0.05 μ g/ml



Detection of endogenous b-catenin

Whole cell extracts of pervanadate (VH) treated tumor cells (20,000 cells per lane) were applied to SDS-PAGE and transferred to PVDF membranes. Immunoblots were probed with mab b-cat 9G10 (0.5 μ g/ml) for 1h at RT and developed by ECL (exp. time: 30 sec). VH treatment : 15 min

lane 1: A431; lane 2: SW480; lane 3: SW620; lane 4: HT29; lane 5: MCF-7; lane 6: MDA231; lane 7: T47D

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