## Mouse Monoclonal Antibody to

β-Catenin, C-Terminus (exon 14)

## clone 7D8

| Order No.: | 0002-100/b-CAT-7D8 |
|------------|--------------------|
|            |                    |

Size (µg) Lot No.:

Isotype

lgG1

100 0002S

WB, ELISA, IP, 90 kDa

Applications

ICC, IHC (PS)

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Fax:

Mol. Weight



C-terminus / exon 14

to

Epitope

biomol

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**Ref.Cell Line** 

SW480

nand EPPERTECHNI

> 02/140307F Immunogen

> > recombinant β-catenin

## **Background and Specificity:**

**Species Reactivity** 

human, mouse, dog

The  $\alpha$ -,  $\beta$ - and  $\gamma$ -catenins are cytoplasmic proteins mediating the interaction of Ca<sup>2+</sup>-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  $\beta$ -catenin plays a dual role not only in the maintainance and regulation of cell-cell interactions but also in the regulation of gene activity.

**Mab**  $\beta$ -CAT-7D8 specifically interacts with the C-terminus (exon 14) of  $\beta$ -catenin.

| Purification:        | The antibody was purified from serum-free cell culture<br>supernatant by subsequent thiophilic adsorption and size<br>exclusion chromatography.   |
|----------------------|---|
| Formulation:         | lyophilized from 1 ml 2 x PBS / 0.1 % Na-azide / PEG and Sucrose.   |
| Reconstitution:      | Reconstitute with 1 ml $H_2O$ (15 min, RT).   |
| Stability:           | For long-term storage, freeze lyophilizate upon arrival (-20°C).<br>Upon reconstitution, aliquote and freeze in liquid nitrogen;<br>reconstituted antibody can be stored frozen at -80°C up to 1 year.<br>Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up t<br>3 months. |
|                      | Avoid repeated freeze / thaw cycles.  |
| Positive Control:    | #0801: Cell lysate from untreated SW480 cells.  |
| Immunoblotting:      | 0.5 μg/ml for HRPO/ECL detection<br><u>Recommended blocking buffer:</u> Casein/Tween 20 based<br>blocking and blot incubation buffer, e.g. nanoTools product<br>#3031-500/CPPT or #3031-3000/CPPT.  |
| Immunoprecipitation: | use at 1 - 10 $\mu g$ per 10 $^{\rm 6}$ vanadate treated A431 cells   |
| Immunocytochemistry: | use at 0.1-1 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) #0006-100/b-CAT-10H8

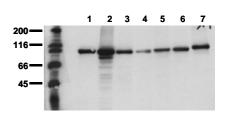
mab to dephospho-b-catenin (aa35-50), #0051-100/b-CAT-7A7

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, and E-,  $\,$  M- and N-Cadherin, please refer to our website at www nanotools de



Detection of endogenous β-Catenin Whole cell lysates of serum starved tumor cells (20.000 cells whole cell systees of seturn starved turnor cells (20,000 cell per lane) were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab b-Cat-7D8 (0.5  $\mu$ g/ ml) for 1h at RT and developed by ECL (exp. time: 3 min)

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