

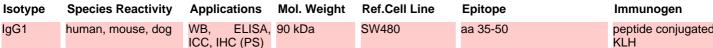
Mouse Monoclonal Antibody to

β-Catenin, dephospho

clone 7A7

0051-100/b-CAT-7A7 Order No.:

100 Size (µg) 0051S Lot No.:



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 maintainance and regulation of cell-cell interactions but also in the regulation of gene activity.

Mab β-CAT-7A7 specifically interacts with cytoplasmic dephospho β -catenin.

Purification: The antibody was purified from serum-free cell culture

supernatant by subsequent thiophilic adsorption and size

exclusion chromatography.

lyophilized from 1 ml PBS / 0.09 % Na-azide / PEG and Sucrose Formulation:

Reconstitute with 1 ml H₂O (15 min, RT). Reconstitution:

For long-term storage, freeze lyophilizate upon arrival (-20°C). Stability:

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.

#0803: Cell lysate from LiCI - treated SW480 cells. **Positive Control:**

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.

ND Immunoprecipitation:

use at 1 - 10 µg/ml Immunocytochemistry:

use at 0.05 µg/ml **ELISA:**

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

www.nanotools.de

orders & support:

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03/040613F

peptide conjugated to

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 (aa27-37)

#0052-100/b-CAT-8E4

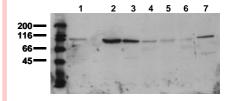
mab to phospho-b-catenin (pY86)

#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



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-7A7(0.5 $\mu g/$ 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