

Mouse Monoclonal Antibody to

**β-Catenin (phospho-Tyr 654)
γ-Catenin (phospho-Tyr 643)**

clone 1B11

Order No.: 0159-100/b-CAT-1B11

Size (μg) 100

Lot No.: 0159S



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02/220207F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref. Cell Line	Epitope	Immunogen
IgG1	human, mouse, dog	WB	90 kDa	SW480	phosphotyrosine 654 / 643 V A T pY A A A	phosphopeptide conjugated to hemocyanin

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.

Additionally, β-catenin is a substrate of both receptor and non-receptor tyrosine kinases. Tyrosine 86 and tyrosine 654 are substrates of EGF receptor and src family kinases while tyrosine 142 is a substrate of fer tyrosine kinases.

Mab β-CAT-1B11 specifically recognizes β-catenin phosphorylated at tyrosine 654 at 90 kDa and gamma-catenin at 70 kDa. Due to sequence homologies of the phospho-epitope surrounding pY 654 there may be crossreactions with other proteins (e.g. Annexin A11 at 56 kDa, gamma-catenin at 70 kDa, Desmoplakin at 81 kDa, TNFalpha-induced protein 2 at 73 kDa, Ribosomal protein S6 kinase alpha 6 at 90 kDa).

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 dephospho-b-catenin (aa27-37)

#0052-100/b-CAT-8E4

mab to phospho-b-catenin (pY86)

#0123-100/b-CAT-24E1

For monoclonal antibodies against alpha-catenin, LEF, TFF3, src, fer, 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.

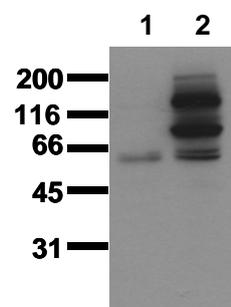
Positive Control: #0802: Cell lysate from pervanadate-treated SW480 cells.

Immunoblotting: 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: ND

ELISA:



Phosphospecificity

Whole cell extracts of control (1) or pervanadate treated (2) OVCAR 5 tumor cells were applied to SDS-PAGE (ca 20.000 cells per lane) and transferred to a PVDF membrane. The immunoblot was probed with mab b-Cat-1B11 (0.5 μg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).

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