

## Product datasheet for **AM00016PU-N**

### **beta Catenin (CTNNB1) pTyr654 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 1B11]**

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	1B11
Applications:	WB
Recommended Dilution:	Western Blot: approx. 1 µg/ml for HRPO/ECL detection. Recommended buffer: Casein/Tween 20 based blocking and blot incubation buffer. Positive control: Cell lysate from pervanadate-treated SW480 cells (please see: 'Protocols')
Reactivity:	Canine, Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Phosphopeptide conjugated to hemocyanin Epitope: phosphotyrosine 654 / 643 (V A T pY A A A).
Specificity:	This antibody specifically recognizes $\beta$ -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).
Formulation:	2 x PBS containing 0.09 % Na-azide, PEG and Sucrose. State: Purified State: Lyophilized Ig fraction
Reconstitution Method:	Restore with 1 ml H <sub>2</sub> O (15 min, RT).
Purification:	Subsequent thiophilic adsorption and size exclusion chromatography
Conjugation:	Unconjugated
Storage:	For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody should be stored frozen at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Shelf life: one year from despatch. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.



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**Gene Name:** catenin beta 1

**Database Link:** [Entrez Gene 1499 Human P35222](#)

**Background:** 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. Additionally,  $\beta$ -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.

**Synonyms:** CTNNB1, CTNNB, Beta-catenin

**Note:** Positive control cell lysate is included.

Protocol: Positive Control Cell Lysate:  
SW 480 PERVANADATE TREATED

Format:

Lyophilized cell lysate from SW480 cells

Serum starved cells were treated for 15 min with pervanadate.

Reconstitution:

Restore by addition of 200  $\mu$ l H<sub>2</sub>O. After complete solubilization add 200  $\mu$ l 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

Application:

The positive control cell lysate is recommended for immunoblot applications. 20  $\mu$ l of positive control cell lysate correspond to ca. 20.000 cells.

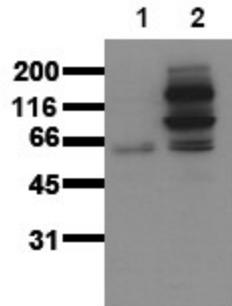
Use 20  $\mu$ l/lane (mini gel) for HRPO/ECL detection of the target proteins.

Please NOTE: The lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as in immunoprecipitation.

Storage:

Aliquote reconstituted product and store frozen. Avoid repeated freezing and thawing.

## Product images:



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 antibody AM00016PU-N (clone 1B11) at 0.5 ug/ml for 1h at RT and developed by ECL (exp. time: 30 sec).