

Product datasheet for **AM00021PU-N**

beta Catenin (CTNNB1) (core) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 9G10]

Product data:

Product Type: Primary Antibodies

Clone Name: 9G10

Applications: ELISA, IF, IHC, IP, WB



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Recommended Dilution: **ELISA:** 0.05 µg/ml.

Immunoprecipitation: 1-10 µg per 10⁶ vanadate treated A431 cells.

Immunocytochemistry: 0.1-1 µg/ml.

Immunohistochemistry on Paraffin Sections.

Western Blot: 0.5 µg/ml for HRPO/ECL detection.

Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer.

Included Positive Control: Cell Lysate from Untreated SW480 cells:

Formulation: Lyophilized Cell Lysate from Serum starved SW480 Cells.

Stability: Restore by addition of 200 µl H₂O. After complete solubilization add 200 µl 2x SDSPAGE sample buffer, mix and incubate at 90°C for 5 min.

Application: The Positive Control cell lysate is recommended for immunoblot applications. 20 µl of positive control cell lysate corresponds to ca 20.000 cells. Use 20 µl/lane (mini gel) for HRPO/ECL detection of the target proteins.

Note: The lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as Immunoprecipitation.

Storage: Aliquote and store frozen.
Avoid repeated freeze/thaw cycles.
Shelf life: one year from despatch.

Reactivity: Human, Mouse, Rat

Host: Mouse

Isotype: IgG2b

Clonality: Monoclonal

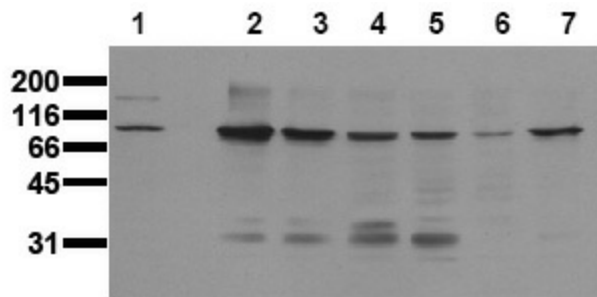
Immunogen: Recombinant β-Catenin.

Epitope: Core (armadillo repeats).

Specificity: This antibody specifically interacts with the core region (armadillo repeats) of β-Catenin.

Formulation:	1 ml 2 x PBS State: Purified State: Lyophilized purified Ig fraction from Serum-Free Cell Culture Supernatant Stabilizer: PEG and Sucrose Preservative: 0.09% Sodium Azide
Reconstitution Method:	Restore with 1 ml H ₂ O (15 min, RT).
Purification:	Subsequent Thiophilic Adsorption and Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	90 kDa
Gene Name:	catenin beta 1
Database Link:	Entrez Gene 1499 Human P35222
Background:	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.
Synonyms:	CTNNB1, CTNNB, Beta-catenin

Product images:



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 ug/ 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