

Product datasheet for **AM00023PU-N**

beta Catenin (CTNNB1) (C-term) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 7D8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	7D8
Applications:	ELISA, IF, IHC, IP, WB
Recommended Dilution:	ELISA: 0.05 µg/ml. Western Blot: 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. <i>Included Positive Control:</i> Cell lysate from untreated SW480 cells. Immunoprecipitation: 1-10 µg per 10e6 vanadate treated A431 cells. Immunocytochemistry: 0.1-1 µg/ml. Immunohistochemistry on Paraffin Sections.
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant beta-Catenin
Specificity:	This antibody specifically interacts with the C-terminus (exon 14) of beta-Catenin.
Formulation:	1ml 2xPBS containing 0.09% Sodium Azide, PEG and Sucrose State: Purified State: Lyophilized purified IgG fraction
Purification:	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.
Gene Name:	catenin beta 1



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

Background: 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 maintenance and regulation of cell-cell interactions but also in the regulation of gene activity.

Synonyms: CTNNB1, CTNNB, Beta-catenin

Note: Protocol: **Positive Control: Cell lysate from untreated SW 480 cells.**

Format: Lyophilized cell lysate from Serum starved SW 480 cells

Reconstitution: Restore by addition of 200 μ l H₂O. After complete solubilization add 200 μ l 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

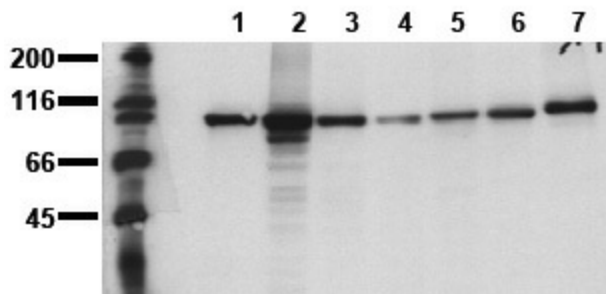
Application: The positive control cell lysate is recommended for immunoblot applications. 20 μ l of positive control cell lysate correspond to ca. 20.000 cells.

Use 20 μ 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:



Detection of endogenous beta-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-7D8 (0.5 μ 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