

Product datasheet for **AM00019PU-N**

beta Catenin (CTNNB1) (N-term, exon 2) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 7D11]

Product data:

| | |
|------------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | 7D11 |
| Applications: | ELISA, IP, WB |
| Recommended Dilution: | <u>Western Blot</u> : 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. <u>Immunoprecipitation</u> : 1 - 10 µg per 10e6 vanadate treated A431 cells. <u>ELISA</u> : 0.05 µg/ml. |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG2a |
| Clonality: | Monoclonal |
| Immunogen: | Recombinant β-Catenin |
| Specificity: | This antibody specifically interacts with the N-terminus (exon 2) of β-catenin at 90 kDa. |
| Formulation: | 1 ml 2 x PBS / 0.09% Sodium Azide / PEG and Sucrose State: Purified State: Lyophilized purified IgG |
| Reconstitution Method: | Restore with 1 ml H ₂ O (15 min, RT). |
| 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 |
| Database Link: | <u>Entrez Gene 1499 Human P35222</u> |



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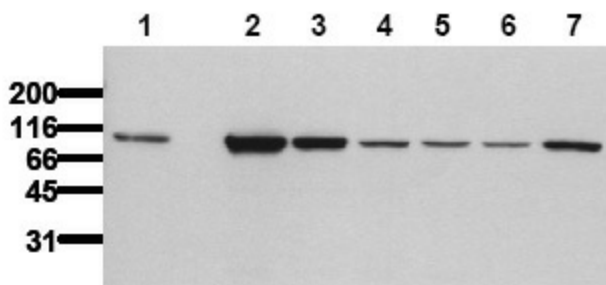
Background:

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 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-7D11 (0.5 $\mu\text{g}/\text{ml}$) 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