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# Product datasheet for AM00015PU-N

## beta Catenin (CTNNB1) pTyr86 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 24E1]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | 24E1 |
| **Applications:** | ELISA, WB |
| **Recommended Dilution:** | Western Blot: 1 µg/ml for HRPO/ECL detection.<br>Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer.<br>ELISA: use at 0.05 µg/ml. |
| **Reactivity:** | Human, Mouse, Rat |
| **Host:** | Mouse |
| **Isotype:** | IgG1 |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Phosphopeptide conjugated to hemocyanin. |
| **Specificity:** | This antibody specifically recognizes β-catenin phosphorylated at tyrosine 86 at 90 kDa. |
| **Formulation:** | 1 ml 2 x PBS / 0.09% Sodium Azide / PEG and Sucrose<br>State: Purified<br>State: Lyophilized |
| **Reconstitution Method:** | Restore with 1 ml H2O (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.<br>Avoid repeated freezing and thawing.<br>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:** | Entrez Gene 1499 Human<br>P35222 |

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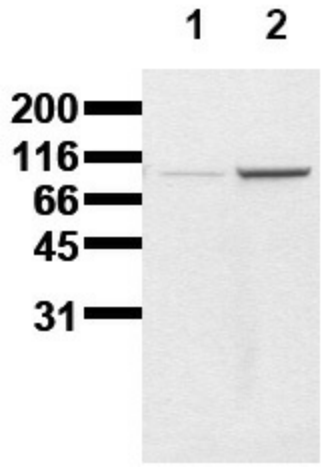
**Background:** The α-, β- and γ-catenins are cytoplasmic proteins mediating the interaction of Ca2+-dependent transmembrane adhesion molecules (cadherins) with the cytoskeletal network. The direct interaction of β-catenin with the cytoplasmic domain of cadherins plays a crucial role for cell-cell adhesion 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 maintainance and regulation of cell-cell interactions but also in the regulation of gene activity. 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 kinase.

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

## Product images:




Phosphospecificity Whole cell extracts of control (1) or pervanadate treated (2) SW480 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-24E1 (0.5 ug/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec).