

## Product datasheet for **AM00020BT-N**

### **beta Catenin (CTNNB1) (exon 3) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 9G2]**

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	9G2
Applications:	ELISA, IF, IHC, IP, WB
Recommended Dilution:	<b>ELISA:</b> 0.05 µg/ml. <b>Western Blot:</b> 0.5 µg/ml for HRPO/ECL detection. <i>Recommended blocking buffer:</i> Casein/Tween 20 based blocking and blot incubation buffer. <b>Immunoprecipitation:</b> 1-10 µg per 10 <sup>6</sup> vanadate treated A431 cells. <b>Immunocytochemistry:</b> 0.1-1 µg/ml. <b>Immunohistochemistry on Paraffin Sections.</b> <i>Included Positive Control:</i> Cell lysate from untreated SW480 cells (for details see <b>Protocols"</b> )
Reactivity:	Canine, Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant β-Catenin. Epitope: Exon 3/Alpha-Catenin binding site
Specificity:	This antibody specifically interacts with exon 3 (alpha-Catenin-binding site) of beta-Catenin.
Formulation:	PBS containing 0.09% Sodium Azide, PEG and Sucrose Label: Biotin State: Liquid purified IgG fraction
Purification:	Size Exclusion Chromatography
Conjugation:	Biotin
Storage:	Store the antibody (aliquote 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



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Gene Name:	catenin beta 1
Database Link:	<a href="#">Entrez Gene 1499 Human P35222</a>
Background:	<p>The <math>\alpha</math>-, <math>\beta</math>- and <math>\gamma</math>-catenins are cytoplasmic proteins mediating the interaction of Ca<sup>2+</sup>-dependent transmembrane adhesion molecules (cadherins) with the cytoskeletal network. The direct interaction of <math>\beta</math>-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 <math>\beta</math>-catenin may also play a role in tumorigenesis since it forms complexes with the tumor suppressor gene product APC. <math>\beta</math>-catenin directly interacts and constitutively activates transcription factors of the TCF/LEF gene family. Thus it is proposed that <math>\beta</math>-catenin plays a dual role not only in the maintenance and regulation of cell-cell interactions but also in the regulation of gene activity.</p>
Synonyms:	CTNNB1, CTNNB, Beta-catenin
Note:	<p>Protocol: <b>Positive Control: Cell lysate from untreated SW480 cells.</b> <u>Formulation:</u> Lyophilized Cell Lysate from Serum starved SW480 cells.</p> <p><u>Stability:</u> Reconstitute by addition of 200 <math>\mu</math>l H<sub>2</sub>O. After complete solubilization add 200 <math>\mu</math>l 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.</p> <p><u>Application:</u> The Positive Control Cell Lysate is recommended for immunoblot applications. 20 <math>\mu</math>l of Positive Control cell lysate correspond to ca. 20.000 cells. Use 20 <math>\mu</math>l/lane (mini gel) for HRPO/ECL detection of the target proteins.</p> <p><b>Note:</b> The lyophilized cell lysates contain SDS and <b>are not recommended</b> for applications with native proteins such as Immunoprecipitation.</p> <p><u>Storage:</u> Aliquote and store frozen. Avoid repeated freeze/thaw cycles. Shelf life: one year from despatch.</p>