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# Anti-α1-Catenin (Tyr-148), Phosphospecific Antibody

Catalog # AN1673

## Product Information

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| **Application** | WB |
| **Primary Accession** | P35221 |
| **Host** | Rabbit |
| **Clonality** | Rabbit Polyclonal |
| **Isotype** | IgG |
| **Calculated MW** | 100071 |

## Additional Information

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| **Gene ID** | 1495 |
| **Other Names** | alphaE-catenin, catenin alpha1, catenin |
| **Target/Specificity** | α-catenins are cadherin interacting proteins with homology to vinculin. Three α-catenin genes have been described including α1-catenin (αE-Catenin), α2-catenin (αN-catenin), and α3-catenin (αT-catenin). α1-catenin has 81% homology with α2-catenin and 60% homology with α3-catenin. These α-catenin isoforms may have similar roles since each binds cadherins. However, their expression patterns are both overlapping and distinct. α1-catenin was identified in epithelial cells, and is expressed in various cell types. α2-catenin is enriched in the nervous system, and α3-catenin is expressed highest in testis and heart. Phosphorylation may regulate the activity of α1-catenin, since tyrosine phosphorylation of Tyr-148 occurs during intercellular adhesion. This site is dephosphorylated by SHP2, which inhibits α1-catenin binding to β-catenin and translocation to the plasma membrane. Phosphorylation of α1-catenin at Tyr-148 may be important for inhibition of cell transformation, and dephosphorylation of this site may be important during SHP2-mediated cell transformation. |
| **Dilution** | WB~~1:1000 |
| **Format** | Antigen Affinity Purified |
| **Storage** | Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | Anti-α1-Catenin (Tyr-148), Phosphospecific Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |
| **Shipping** | Blue Ice |

## Background

α-catenins are cadherin interacting proteins with homology to vinculin. Three α-catenin genes have been described including α1-catenin (αE-Catenin), α2-catenin (αN-catenin), and α3-catenin (αT-catenin). α1-catenin

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.