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Anti-α1-Catenin (N-terminal region) Antibody

Catalog # AN1672

Product Information

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

Additional Information

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 (N-terminal region) 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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