

γ -Catenin (a.a. 545-555) Peptide

Cat. # CX2975

Size 50 μ g

Background:

Plakoglobin (γ -catenin) is a catenin family member identified as a component of desmosomes. γ -Catenin has high homology to β -catenin and, like β -catenin, it can associate with the cadherins, E-cadherin and N-cadherin. One molecule of α -catenin and at least one molecule of β -catenin and γ -catenin simultaneously bind to a single cadherin molecule. A 19-amino acid sequence of desmoglein was found to be critical for binding of γ -catenin. Similar catenin-binding domains found in cadherins, suggest a common mechanism for γ -catenin localization to both adherens junctions and desmosomes. Phosphorylation of tyrosine residues in γ -catenin can modify its interactions with other proteins. Phosphorylation of tyrosine 644 decreases γ -catenin association with α -catenin, but increases binding to desmoplakin. Fer kinase can phosphorylate tyrosine 550, which increases γ -catenin binding to α -catenin. Thus, tyrosine phosphorylation may be important for regulation of γ -catenin protein-protein interactions within desmosomal complexes.

References

McCrea, P.D., et al. (1991) Science 254:1359.
Miravet, S. et al. (2003) Mol. Cell. Biol. 23(20) :7391.

Peptide Sequence:

γ -Catenin synthetic peptide corresponding to amino acid residues 545 to 555 from human γ -Catenin. This peptide sequence is highly conserved in rat and mouse γ -Catenin.

Buffer and Storage:

Blocking Peptide is supplied in 50 μ l phosphate-buffered saline and 0.05% sodium azide. Store at -20° C. Stable for 1 year.

Applications:

Blocking 1:1000

ELISA 50 ng/well

End user should determine optimal concentration dependent on the concentration of the antibody.
Recommended for blocking antibody reactivity in Western blot and immunocytochemistry.
ELISA established in 96-well Nunc immunoplates where peptide was bound to plates for 2 hrs in 0.1 M sodium carbonate buffer, pH 8.5.

Specificity:

The peptide is specifically recognized by γ -Catenin (a.a. 545-555) antibody (CP2971) in ELISA, and has been shown to block the reactivity of CP2971 during Western blot. In addition, the peptide is recommended for use in blocking CP2971 reactivity in immunocytochemistry.

Related Products:

CP2971 γ -Catenin (a.a. 545-555) Rabbit Polyclonal
CP1121 γ -Catenin (Tyr-550), phospho-specific Rabbit Polyclonal
CX1125 phospho- γ -Catenin (Tyr-550) Peptide
CM1111 γ -Catenin (C-terminal) Mouse Monoclonal
CP1191 β -Catenin (Tyr-86), phospho-specific Rabbit Polyclonal
CP2961 β -Catenin (Tyr-489), phospho-specific

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