

gamma-Catenin Phospho-Regulation Antibody Sampler Kit

gamma-Catenin Phospho-Regulation

CATALOG #
AAA71572

APPLICATIONS
Immunoprecipitation, Immunocytochemistry, ELISA, Western Blot

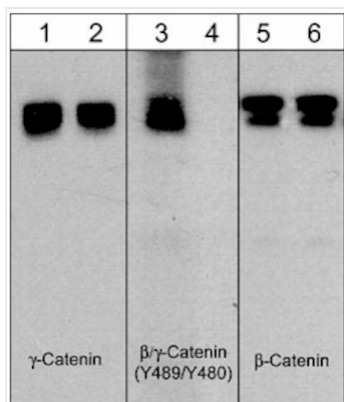
PRODUCT SYNONYMS

gamma-Catenin Phospho-Regulation; Catenin 3K1; gamma-Catenin Phospho-Regulation antibody sampler kit

PRODUCT SPECIFICATIONS

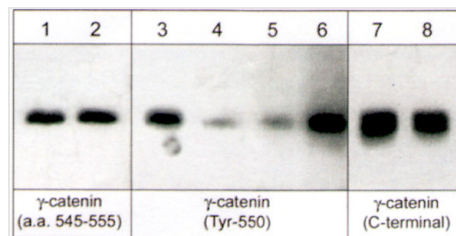
Form/Format	Supplied in phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for gamma-Catenin Phospho-Regulation antibody sampler kit	IP (Immunoprecipitation), ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Preparation and Storage	Store at -20°C. Do not aliquot. Stable for 1 year.

IMAGES



WB (Western Blot)

Western Blot analysis of A431 cells stimulated with pervanadate (1mM) for 30 minutes (lanes 1, 3, & 5) then treated with alkaline phosphatase (lanes 2, 4, & 6). The blot was probed with anti-gamma-Catenin, anti-beta-Catenin (Tyr-489) conserved site, or anti-beta-Catenin.



WB (Western Blot)

Western blot analysis of gamma-Catenin immunoprecipitated from A431 cells treated with pervanadate using anti-gamma-Catenin (C-terminal). The immunoprecipitates were untreated (lanes 1, 3, & 7) or treated with alkaline phosphatase (lanes 2, 4, & 8). Blots of the immunoprecipitates were probed with anti-gamma-Catenin (a.a. 545-555), anti-gamma-Catenin (Tyr-550) or anti-gamma-Catenin (C-terminal). In addition, the anti-gamma-Catenin (Tyr-550) was used in the presence of phospho-gamma-Catenin (Tyr-550) peptide (lane 5) or phospho-gamma-Catenin (Tyr-644) peptide (lane 6).

ADDITIONAL INFORMATION

Related Product Information for gamma-Catenin Phospho-Regulation antibody sampler kit

Background: Plakoglobin (gamma-catenin) is a catenin family member identified as a component of desmosomes. gamma-Catenin has high homology to beta-catenin and, like beta-catenin, it can associate with the cadherins, E-cadherin and N-cadherin. One molecule of alpha-catenin and at least one molecule of beta-catenin and gamma-catenin simultaneously bind to a single cadherin molecule. A 19-amino acid sequence of desmoglein was found to be critical for binding of gamma-catenin. Similar catenin-binding domains found in cadherins, suggest a common mechanism for gamma-catenin localization to both adherens junctions and desmosomes. Phosphorylation of tyrosine residues (Tyr-133, Tyr-480, Tyr-550, Tyr-644) in gamma-catenin can modify its interactions with other proteins. Phosphorylation of Tyr-644 decreases gamma-catenin association with alpha-catenin, but increases binding to desmoplakin. Fer kinase can phosphorylate Tyr-550, which increases gamma-catenin binding to alpha-catenin. Thus, tyrosine phosphorylation may be important for regulation of gamma-catenin protein-protein interactions within desmosomal complexes.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/antibody-sampler-kits/gamma-catenin-phospho-regulation/71572>