

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat β -Catenin in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human β -Catenin
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m filtered solution in PBS.

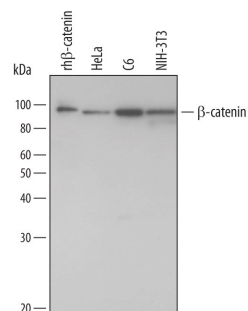
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the [Technical Information](#) section on our website.

	Recommended Concentration	Sample
Western Blot	1 μ g/mL	See Below
Chromatin Immunoprecipitation (ChIP)	5 μ g/5 x 10 ⁶ cells	See Below
Immunohistochemistry	5-15 μ g/mL	See Below
Intracellular Staining by Flow Cytometry	2.5 μ g/10 ⁶ cells	See Below

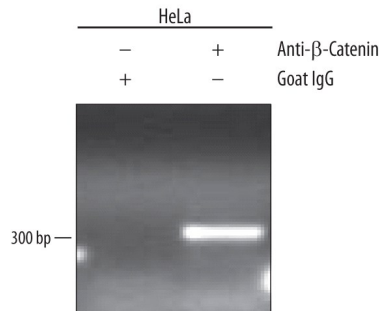
DATA

Western Blot



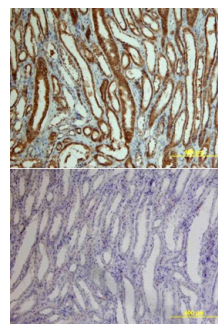
Detection of Human/Mouse/Rat β -Catenin by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, C6 rat glioma cell line, and NIH-3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 1 μ g/mL Goat Anti-Human/Mouse/Rat β -Catenin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1329) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). For additional reference, recombinant human β -catenin (1 ng) was included. A specific band for beta-Catenin was detected at approximately 95 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

Chromatin Immunoprecipitation (ChIP)



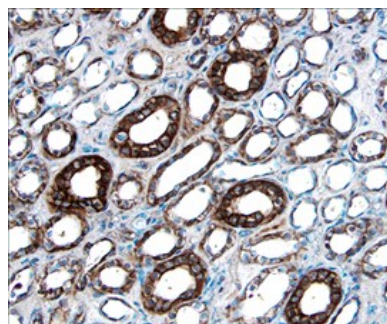
Detection of β -Catenin-regulated Genes by Chromatin Immunoprecipitation. HeLa human cervical epithelial carcinoma cell line were fixed using formaldehyde, resuspended in lysis buffer, and sonicated to shear chromatin. β -Catenin/DNA complexes were immunoprecipitated using 5 μ g Goat Anti-Human/Mouse/Rat β -Catenin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1329) or control antibody (Catalog # AB-108-C) for 15 minutes in an ultrasonic bath, followed by Biotinylated Anti-Goat IgG Secondary Antibody (Catalog # BAF109). Immunocomplexes were captured using 50 μ L of MagCelect Streptavidin Ferrofluid (Catalog # MAG999) and DNA was purified using chelating resin solution. The *SU(Z)12* promoter was detected by standard PCR.

Immunohistochemistry

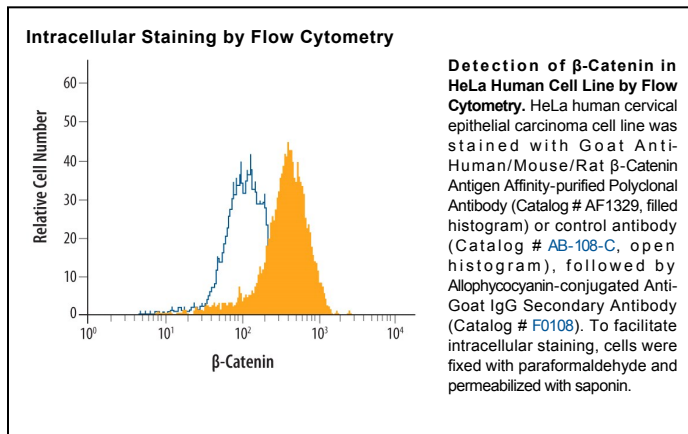


β -Catenin in Human Kidney Cancer Tissue. β -Catenin was detected in immersion fixed paraffin-embedded sections of human kidney cancer tissue using Goat Anti-Human/Mouse/Rat β -Catenin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1329) at 15 μ g/mL overnight at 4 $^{\circ}$ C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Lower panel shows a lack of labeling if primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

Immunohistochemistry



β -Catenin in Human Kidney Cancer Tissue. β -Catenin was detected in immersion fixed paraffin-embedded sections of human kidney cancer tissue using 15 μ g/mL Goat Anti-Human/Mouse/Rat β -Catenin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1329) overnight at 4 $^{\circ}$ C. Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific labeling was localized to epithelial cells in collecting tubules in the medulla. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.