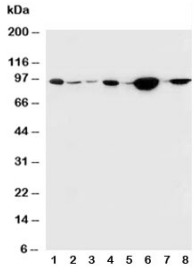
b-Catenin Antibody (R30313)

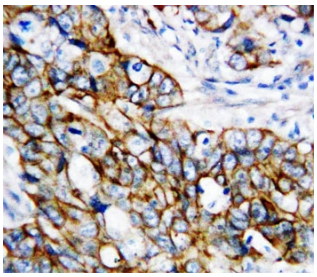
Catalog No.	Formulation	Size
R30313	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P35222
Localization	Cell surface, cytoplasmic
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml IHC (Frozen) : 0.5-1ug/ml Immunocytochemistry : 0.5-1ug/ml
Limitations	This b-Catenin antibody is available for research use only.



Western blot testing of b-Catenin antibody and Lane 1: rat brain; 2: rat heart; 3: rat testis; 4: human MCF-7; 5: (h) HeLa; 6: (h) M453; 7: (h) M231; 8: (h) HT1080 cell lysate. Predicted molecular weight ~85 kDa, but routinely observed at 90-95 kDa.



IHC-P: b-Catenin antibody testing of human breast cancer tissue

Description

Catenins are proteins found in complexes with cadherin cell adhesion molecules of animal cells. The first two catenins that were identified became known as alpha-catenin, which can bind to beta-catenin and can also bind actin, and beta-catenin. b-Catenin binds the cytoplasmic domain of some cadherins as an adherens junction protein. In normal tissues, b-catenin is localized to the membrane of epithelial cells, consistent with its role in the cell adhesion complex. In breast ductal neoplasia, it is usually localized in cellular membranes. However, in lobular neoplasia, a marked redistribution throughout the cytoplasm results in a diffuse cytoplasmic pattern. It plays an important role in various aspects of liver biology including liver development (both embryonic and postnatal), liver regeneration following partial hepatectomy, HGF-induced hepatpomegaly, liver zonation, and pathogenesis of liver cancer.

Application Notes

The stated application concentrations are suggested starting points. Titration of the b-Catenin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A synthetic peptide corresponding to the N-terminus of the human protein (MATQADLMELDMAMEPDRK) was used as the immunogen for this b-Catenin antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the b-Catenin antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.