

## $\beta$ -Catenin clone 14

### Instructions for Use

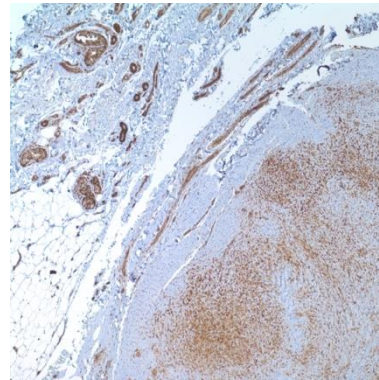
#### Specification:

$\beta$ -Catenin is a 92 kDa protein that binds to the cytoplasmic tail of E-Cadherin. The cadherins, transmembrane adhesion molecules, are found with catenin's at adherens junctions (zonula adherens). Deletions in the cytoplasmic domain of E-Cadherin which eliminate catenin binding also result in a loss of cell adhesion, indicating that this binding is essential for E-Cadherin function. Although the  $\alpha$ - and  $\beta$ -Catenin's have been cloned, very little is known about their biochemical roles. However, a link between  $\beta$ -Catenin and colon cancer has been described.

$\beta$ -Catenin was found to co-immunoprecipitated with the APC tumor suppressor protein in human colorectal tumor cell lines, as well as in human kidney 293 cells. E-Cadherin, however, was not detectable in these complexes. Thus, the APC-Catenin complex may be affecting the transmission of contact inhibition signals and/or the regulation of cell adhesion.

#### Availability:

Catalog No.	Contents	Volume
ILM7324-C01	B-Catenin	0,1 ml concentrated
ILM7324-C05	B-Catenin	0,5 ml concentrated
ILM7324-C1	B-Catenin	1,0 ml concentrated



**Intended use:** For Research Use Only

**Reactivity:** Human, Chicken, Dog, Mouse, Rat

**Clone:** 14/Beta-catenin

**Species of origin:** Mouse

**Isotype:** IgG1

**Control Tissue:** Abdomen, fibromatosis of breast, breast carcinoma, prostate, transitional cell carcinoma

**Staining:** Nuclear, membranous, cytoplasmic

**Immunogen:** Mouse  $\beta$ -Catenin aa. 571-781

**Presentation:** 0.05 mg/ml in Aqueous buffered solution containing BSA, glycerol, and  $\leq 0.09\%$  sodium azide.

#### Application and suggested dilutions:

Pre-treatment: Heat induced epitope retrieval in 10 mM citrate buffer, pH6.0, or in 50 mM Tris buffer pH9.5, for 20 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution up to 1:100-1:200)
- WB (dilution up to 1:250)

The optimal dilution for a specific application should be determined by the investigator.

**Note:** Dilution of the antibody in 10% normal goat serum followed by a goat anti-mouse secondary antibody-based detection is recommended.

**Storage & Stability:** Store at 2-8 °C. Do not use after expiration date printed on the vial.

#### References:

- 1) Eger A, *J Cell Biol.* 2000; 148(1):173-187
- 2) Lee MSJ *Cell Biol.* 2002; 158(6):1067-1078.
- 3) Ozawa M, *Proc Natl Acad Sci U S A.* 1990; 87(11):4246-4250.
- 4) Persad S, *J Cell Biol.* 2001; 153(6):1161-1173.
- 5) Tateishi K, *J Cell Biol.* 2001;155(4):571-579.