

Catalog No. LF-MA0102

MONOCLONAL ANTIBODY



Anti-beta Catenin(N-terminal) (1C10)

Background : β -Catenin was a cytosolic protein originally identified through its association with the cadherin class of cell-adhesion proteins. β -Catenin has two key cellular functions; one plays direct role in cell adhesion, bridging between cadherins and the actin cytoskeleton. The other plays as a transcription cofactor with T cell factor/lymphoid enhancer factor(TCF/LEF) in the Wnt pathway. Glycogen synthase-3 β (GSK3 β) may destabilize β -Catenin by phosphorylation at Ser33/37 and thr41. A complex of axin and casein kinase I(CKI) induces β -catenin phosphorylation at a single site: serine 45(S45). S45 phosphorylation is necessary and sufficient to mobilize a GSK3 β mediated cascade. Mutation of these phosphorylation sites in β -Catenin have been found in many tumor cell lines.

Immunogen : His-tagged recombinant Human β -Catenin (N-terminal fragment) protein purified from *E. coli*

Host : Mouse

Clone number : 1C10

Isotype : IgG2b, k

Composition : PBS containing 50% glycerol

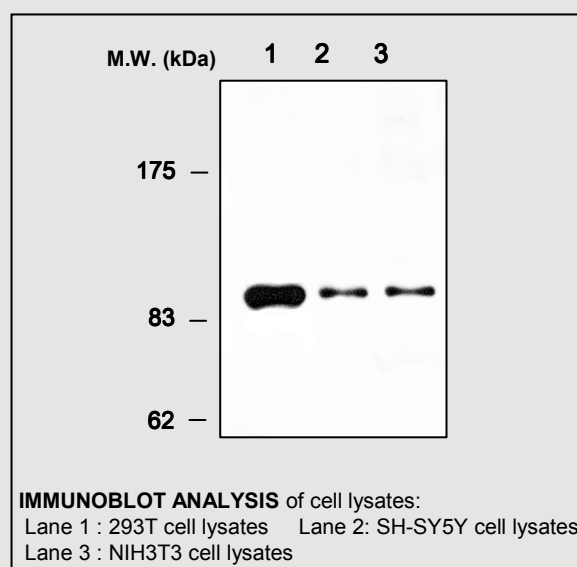
Size : 100 μ l

Positive control : 293T cell lysate

Storage : Store for 1 year at -20°C from date of shipment

Species cross reactivity

Human	Mouse	Rat
+	+	+



Applications :

ELISA

Western Blotting (1:500-1000)

Immunoprecipitation(1-2 μ l/400 μ l cell lysates)

Background Reference :

- (1) Hinck L, et al. (1994) *Trends Biochem Sci.* **19**(12):538-42
- (2) Schneider SQ, et al. (2003) *J Exp Zool B Mol Dev Evol.* **295**(1):25-44
- (3) W. James Nelson et al. (2004) *Science* **303** :1483-7
- (4) Amit S, et al. (2002) *Genes Dev.* **16**(9):1066-76
- (5) Morin P.J., et al. (1997) *Science* **275**:1787-1790

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