Catalog No. LF-MA0103

MONOCLONAL ANTIBODY

Anti-beta Catenin(C-terminal) (1F12)

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-3β(GSK3β) 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 GSK3β 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 (C-terminal fragment) protein purified from *E. coli*

Host : Mouse

Clone number : 1F12

Isotype : IgG2a, k

Composition : PBS containing 50% glycerol

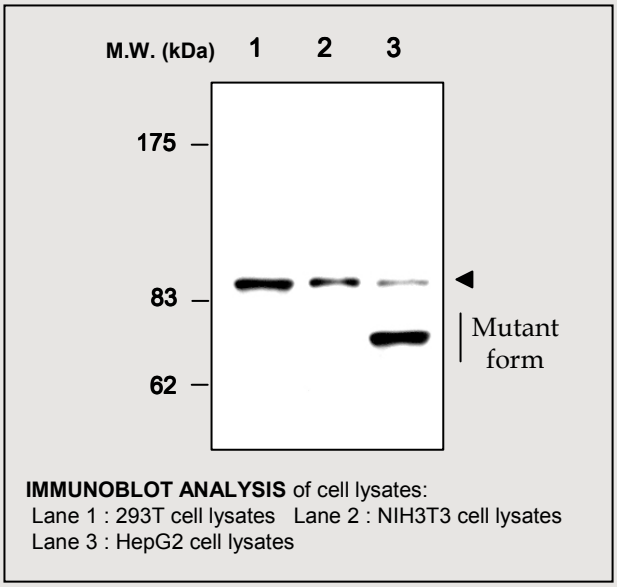
Size : 100 µℓ

Positive control : 293T cell lysate

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

Species cross reactivity

Human	Mouse	Rat
+	+	+



IMMUNOBLOT ANALYSIS of cell lysates:
Lane 1 : 293T cell lysates Lane 2 : NIH3T3 cell lysates
Lane 3 : HepG2 cell lysates

Applications :
ELISA
Western Blotting (1:500-1000)
Immunoprecipitation(1-2 µℓ/400 µℓ 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 Zoolog 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
(6) M. Cervello, et. al.(2001) European Journal of Cancer 37:512-519

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