Catalog No. LF-MA0074

MONOCLONAL ANTIBODY

Anti-14-3-3 β (60C10)

Background : 14-3-3, a family of acidic and soluble proteins, highly conserved in amino acid sequences from yeast to mammals, is expressed in all eukaryotic cells. Seven isoforms(β, γ, ε, η, ζ, σ and τ/θ) encoded by seven distinct genes are identified in mammals and forms homo- and hetero-dimeric cup-shaped structures. As 14-3-3 is interacted with more than 100 binding partners, it regulates key proteins involved in various biological processes such as signal trans-duction, cell cycle, transcriptional control, cell proliferation, apoptosis, and ion channel physiology. Most 14-3-3 requires phosphorylation of serine or threonine residues in the target sequence. This protein is abundantly expressed in the brain and has been detected in the cerebrospinal fluid of patients with different neurological disorders.

Immunogen : Recombinant human protein purified from *E.coli*

Host : Mouse

Clone number : 60C10

Isotype : IgG2b, k

Size : 100ul

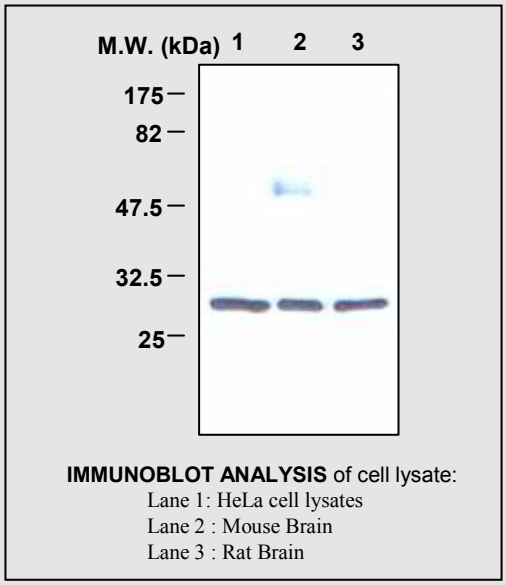
Composition : PBS containing 50% glycerol

Positive control : HeLa cell lysate

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

Species cross reactivity

Human	Mouse	Rat
+	+	+



IMMUNOBLOT ANALYSIS of cell lysate:
Lane 1: HeLa cell lysates
Lane 2 : Mouse Brain
Lane 3 : Rat Brain

Applications :
Western Blotting (1:2000)

Background Reference :

1) Tzivion, G. et al. (2001) Oncogene, 20, 6331-6338
2) Tzivion, G. and Avruch, J. (2002) J.Biol.Chem. 277, 3061-3064
3) Berg, D. et al. (2003) Nat. Rev. Neurosci. 4(9), 752-762

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