

**Catalog No. LF-MA0219**

**MONOCLONAL ANTIBODY**



## Anti- Protein Phosphatase 2A catalytic subunit- $\alpha/\beta$ (13D4)

**Background :** Protein Phosphatase 2A (PP2A) is a ubiquitous and conserved Serine/Threonine phosphatase and accounts for a large fraction of phosphatase activity in eukaryotic cells. PP2A plays an important role in cell cycle regulation, cell growth control, development, regulation of various signal transduction pathways, and cell mobility.

PP2A comprises A and B subunits which are regulatory and a catalytic C subunit. When the PP2A catalytic C subunit (36 kDa) associates with the regulatory A (65 kDa, PR65) and B subunits (PR55, PR56, PR72, PR93 etc), wide variety of heterotrimeric holoenzymes are produced with distinct functions and characteristics. The different association of the subunits give PP2A large regulatory flexibility and differential substrate specificity. The A subunit exists as two isoforms (  $\alpha$  and  $\beta$  ) as does the C subunit, whereas the B subunits fall into three families designated B, B' (also called B56), and B''. The A subunit is the scaffold required for the formation of the heterotrimeric complex and the binding of A subunit alters the enzymatic activity of the catalytic subunit, even if the B subunit is absent.

**Immunogen :** Synthetic peptide (a.a. 297-309)

**Size :** 100 $\mu$ l

**Host :** Mouse

**Clone number :** 13D4

**Isotype :** IgG1, k

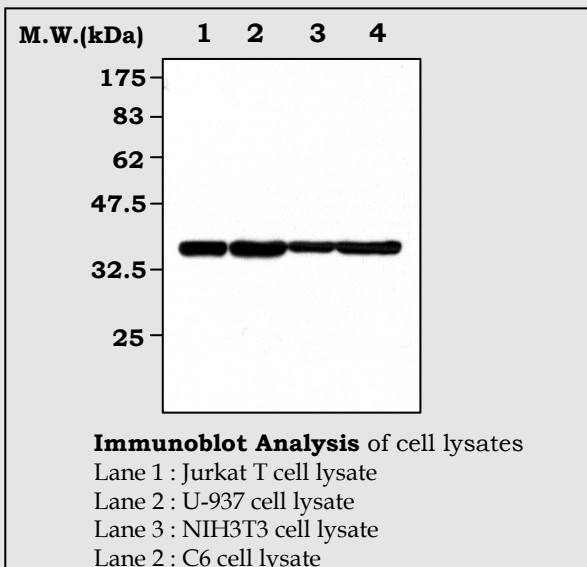
**Composition :** Hepes with 0.15M NaCl, 0.01% BSA, 0.03% sodium azide, and 50% glycerol

**Positive control :** U-937 cell lysate

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

### Species cross reactivity

Human	Mouse	Rat
+	+	+



### Applications :

Western Blotting (1:5,000)

Immunoprecipitation (2~3  $\mu$ l / 400  $\mu$ l lysates)

### Background Reference :

- 1) Mumby M, 2007, Cell. 130(1):21-24.
- 2) Xu Y et al., 2006, Cell. 127(6):1239-1251.
- 3) Avdi NJ et al., 2002, J Biol Chem. 277(43):40687-40696.

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