

Catalog No. LF-MA0116

MONOCLONAL ANTIBODY



Anti-CDK5 (8A1)

Background : Cyclin-dependent kinase-5 (CDK5) is a member of the cyclin-dependent kinase family of serine/threonine kinases. Its mRNA and protein are expressed in kidney, testes, and ovary. And Its activity is detected almost exclusively in brain extracts.

Similar to other Cdk5, monomeric Cdk5 displays no enzymatic activity, but Cdk5 is not activated by cyclins. Instead, Cdk5 activity requires association with one of two brain-specific regulatory subunits called p35 and p39. The two activators regulate the spatial and temporal expression of active Cdk5 to restrict its activity primarily to post-mitotic neurons.

Immunogen : His-tagged recombinant human CDK5 protein purified from Baculovirus expressed insect cells.

Host : Mouse

Clone number : 8A1

Isotype : IgG2b, k

Size : 100 μ l

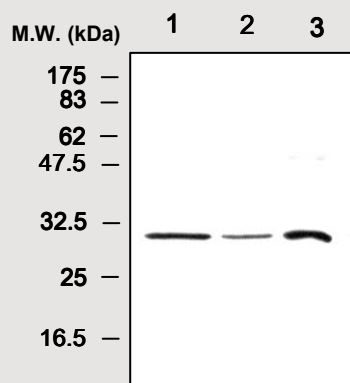
Composition : PBS containing 50% glycerol

Positive control : SH-SY5Y cell lysates

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

Species cross reactivity

Human	Mouse	Rat
+	+	+



IMMUNOBLOT ANALYSIS of cell lysates and tissues:
Lane 1 : SH-SY5Y cell lysates Lane 2: SK-N-SH cell lysates
Lane 3 : mouse brain tissues

Applications :

ELISA

Western blotting (1:1000 ~ 2000)

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

Background Reference:

- 1) Shirley B. Shelton and gail V.W. Johnson 2004 *Journal of Neurlchemistry* **88**,1313-1326
- 2) Jonathan C Cruz and Li-Huei Tsai 2004 *Current Poinion in Neurobiology* **14**:390-394
- 3) Deanna S. Smith, Paul L. Greer, and Li-Huei Tsai 2001 *Cell Growth & Differentiation* **12**,277-283

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