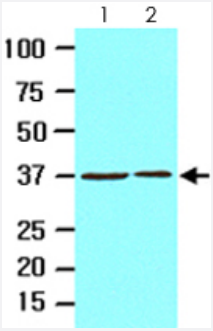
EPM2A monoclonal antibody, clone k2A3

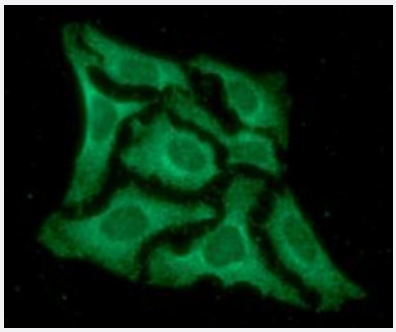
Catalog # MAB2052 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of Lane 1: HeLa cell lysate, Lane 2: 293T cell lysate.



Immunofluorescence

Immunofluorescence analysis of HeLa cells. The cell was stained with EPM2A monoclonal antibody, clone k2A3 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant EPM2A.
Immunogen	Recombinant protein corresponding to amino acids 243-331 of human EPM2A.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Isotype	IgG1, kappa

Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	ELISA Immunocytochemistry Immunofluorescence Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of Lane 1: HeLa cell lysate, Lane 2: 293T cell lysate.

- Immunocytochemistry

- Immunofluorescence

  Immunofluorescence analysis of HeLa cells. The cell was stained with EPM2A monoclonal antibody, clone k2A3 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — EPM2A

Entrez GeneID	7957
Protein Accession#	NP_005661
Gene Name	EPM2A
Gene Alias	EPM2, MELF
Gene Description	epilepsy, progressive myoclonus type 2A, Lafora disease (laforin)
Omim ID	254780 607566
Gene Ontology	Hyperlink

Gene Summary	This gene encodes a dual-specificity phosphatase that associates with polyribosomes. The enco ded protein may be involved in the regulation of glycogen metabolism. Mutations in this gene have been associated with myoclonic epilepsy of Lafora. Alternative splicing results in multiple transcri pt variants. [provided by RefSeq
Other Designations	OTTHUMP00000017360|epilepsy, progressive myoclonus type 2, Lafora disease (laforin)|laforin

Publication Reference

- Laforin is a glycogen phosphatase, deficiency of which leads to elevated phosphorylation of glycogen in vivo.

  Tagliabracci VS, Turnbull J, Wang W, Girard JM, Zhao X, Skurat AV, Delgado-Escueta AV, Minassian BA, Depaoli-Roach AA, Roach PJ.

  PNAS 2007 Nov; 104(49):19262.

  Application: WB, Mouse, Mouse brain

- Relationship between glycogen accumulation and the laforin dual specificity phosphatase.

  Wang W, Parker GE, Skurat AV, Raben N, DePaoli-Roach AA, Roach PJ.

  Biochemical and Biophysical Research Communications 2006 Nov; 350(3):588.

  Application: WB-Ti, Mouse, Mouse skeletal muscle

- Genotype-phenotype correlations for EPM2A mutations in Lafora's progressive myoclonus epilepsy: exon 1 mutations associate with an early-onset cognitive deficit subphenotype.

  Ganesh S, Delgado-Escueta AV, Suzuki T, Francheschetti S, Riggio C, Avanzini G, Rabinowicz A, Bohlega S, Bailey J, Alonso ME, Rasmussen A, Thomson AE, Ochoa A, Prado AJ, Medina MT, Yamakawa K.

  Human Molecular Genetics 2002 May; 11(11):1263.

Disease

- Epilepsy
- Lafora Disease