Human EPM2A antibody

Catalog Number: AEP0911

PRODUCT INFORMATION

Catalog number
AEP0911

Clone No.
k2A3

Product type
Monoclonal Antibody

UnitProt No.
O95278

NCBI Accession No.
NP_005661

Alternative Names
Laforin isoform a,epilepsy, progressive myoclonus type 2A Lafora disease (laforin), epilepsy progressive myoclonus type 2 Lafora disease (laforin), LDE, LD

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human EPM2A (243-331aa) purified from E. coli

Isotype
IgG1 kappa

Purification Note
By protein-G affinity chromatography

Application
ELISA,WB,ICC/IF

Usage
The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

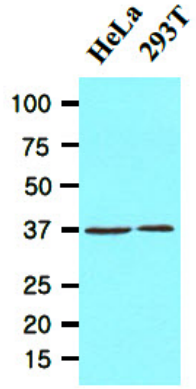
Epilepsy, progressive myoclonus type 2A (EPM2A), also known as laforin, is a dual-specificity phosphatase that associates with polyribosomes. The protein may be involved in the control of glycogen metabolism, particularly in monitoring for and preventing the formation of poorly branched glycogen molecules. Defects in EPM2A are a cause of progressive myoclonic epilepsy type 2 (EPM2), also known as Lafora disease. EPM2 is an autosomal recessive and severe form of adolescent-onset progressive epilepsy.

General References

Tagliabracci V.S., et al. (2007) Proc Natl Acad Sci U S A. 104(49):19262-19266.
Wang W., et al. (2006) Biochem Biophys Res Cimmun. 350(3):588-592.
Ganesh S., et al. (2002) Hum Mol Genet. 11:1263-1271.

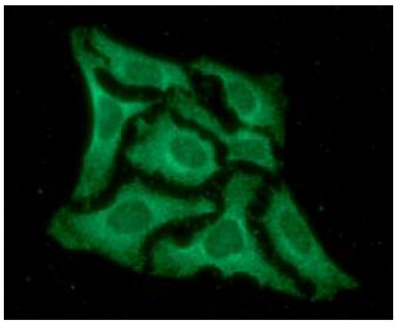
DATA

Western blot analysis (WB)



The cell lysates of HeLa and 293T (20ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human EPM2A (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of EPM2A in HeLa cells. The cell was stained with AEP0911 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).