EP2A2 Rabbit pAb

CatalogNo: YN4185

Key Features

Host Species
- Rabbit

Reactivity
- Human,Rat,Mouse,

Applications
- WB

MW
- 38kD (Calculated)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-2000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human EP2A2 AA range: 266-316
Specificity	This antibody detects endogenous levels of EP2A2 at Human

Target Information

Gene name	EPM2A

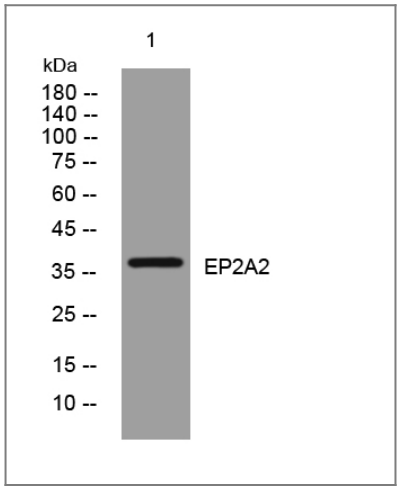
Protein Name EP2A2

Organism	Gene ID	UniProt ID
Human		B3EWF7;

Cellular Localization Nucleus .

Function Catalytic activity:A phosphoprotein + H(2)O = a protein + phosphate.,Catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,Disease:Defects in EPM2A are a cause of progressive myoclonic epilepsy type 2 (EPM2) [MIM:254780]; also known as Lafora disease. EPM2 is an autosomal recessive and severe form of adolescent-onset progressive epilepsy. Typically, as seizures increase in frequency, cognitive function declines towards dementia, and affected individuals die usually within 10 years after onset. EPM2 occurs worldwide, but it is particularly common in the mediterranean countries of southern Europe and northern Africa, in southern India and in the Middle East. At the cellular level, it is characterized by accumulation of starch-like polyglucosans called Lafora bodies (LBs) that are most abundant in organs with the highest glucose metabolism: brain, heart, liver and skeletal muscle. Among other conditions involving polyglucosans, EPM2 is unique in that the inclusions are in neuronal dendrites but not axons and the forming polyglucosan fibrils are associated with the endoplasmic reticulum.,Function:Dual specificity protein phosphatase. May be involved in the control of glycogen metabolism, particularly in monitoring for and preventing the formation of poorly branched glycogen molecules (polyglucosans).,similarity:Belongs to the protein-tyrosine phosphatase family.,similarity:Contains 1 CBM20 (carbohydrate binding type-20) domain.,similarity:Contains 1 tyrosine-protein phosphatase domain.,subcellular location:Also found in the nucleus.,subcellular location:Primarily associated with polyribosomes at the endoplasmic reticulum, also found at the plasma membrane.,subunit:Interacts with itself. Interacts also with PPP1R5, HIRIP5 and EPM2AIP1. Binds glycogen and Lafora bodies.,tissue specificity:Expressed in heart, skeletal muscle, kidney, pancreas and brain.,

Validation Data



Western blot analysis of lysates from A549 cells, primary antibody was diluted at 1:1000, 4°over night

Contact information

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Please scan the QR code to access additional product information:
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