

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Laforin/EPM2A in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 523435
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Laforin/EPM2A Met1-Leu331 Accession # AAH70047
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Laforin, also known as Lafora PTPase and EPM2A, is a 38 kDa member of the protein tyrosine phosphatase family. Human Laforin is 331 aa in length and contains one carbohydrate binding type-20 (CBM20) domain (aa 1-124) and one tyrosine-protein phosphatase domain (aa 243-311). Multiple splicing variants produce four isoforms of human Laforin, which is most highly expressed in heart, skeletal muscle, kidney, pancreas and brain. It functions as a dual specificity protein phosphatase and may be involved in the control of glycogen metabolism. Mutations in Laforin cause progressive myoclonic epilepsy type 2, also known as Lafora disease.

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