Human Laforin/EPM2A Antibody

Monoclonal Mouse IgG_{2B} Clone # 523435

Catalog Number: MAB5714

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	*E. coli*-derived recombinant human Laforin/EPM2A Met1-Leu331 Accession # AAH70047
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

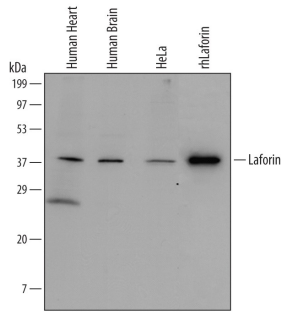
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human Laforin/EPM2A by Western Blot. Western blot shows lysates of human heart and brain tissue, and HeLa human cervical epithelial carcinoma cell line. PVDF membrane was probed with 1 µg/mL Mouse Anti-Human Laforin/EPM2A Monoclonal Antibody (Catalog # MAB5714) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). For additional reference, recombinant human Laforin (3 ng) was included. A specific band for Laforin/EPM2A was detected at approximately 38 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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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