A Reliable Research Partner in Life Science and Medicine

Recombinant SLC25A12 Monoclonal Antibody

catalog number: AN301939L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Human; Rat; Mouse

Immunogen Recombinant human SLC25A12 fragment

HostRabbitIsotype IgG, κ CloneA655

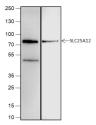
Purification Protein Apurified

Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

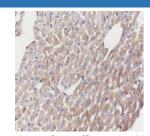
Applications Recommended Dilution

WB 1:2000-1:5000 **IHC** 1:50-1:100

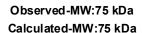
Data

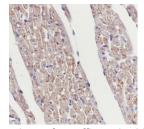


Western Blot with SLC25A12 Monoclonal Antibody at dilution of 1:5000. Lane 1: HeLa, Lane 2: Mouse skeletal muscle



Immunohistochemistry of paraffin-embedded Mouse cardiac muscle using SLC25A12 Monoclonal Antibody at dilution of 1:100.





Immunohistochemistry of paraffin-embedded Rat cardiac muscle using SLC25A12 Monoclonal Antibody at dilution of 1:100.

Preparation & Storage

Storage Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping lce bag

Background

For Research Use Only

Elabscience®

Elabscience Bionovation Inc.

A Reliable Research Partner in Life Science and Medicine

The calcium-binding mitochondrial carrier protein (SLC25A12), also named as ARALAR or AGC1, is an aspartate-glutamate exchange protein responsible for transporting mitochondrial aspartate across the mitochondrial inner membrane in exchange for cytosolic glutamate. SLC25A12 and other proteins of the aspartate-glutamate carrier (AGC) group are required for the transfer of mitochondrial aspartate to the cytosol, a key step in urea synthesis. Research studies using SLC25A12-knockout mice indicate that SLC25A12 plays an important role in proper CNS myelination. Mice lacking SLC25A12 suffer from hypomyelination as a result of a lack of oligodendrocyte maturation caused by decreased brain N-acetylaspartate levels. Mutation of the corresponding SLC25A12 gene can result in global cerebral hypomyelination and severe psychomotor retardation, caused by deficient SLC25A12 activity and limited mitochondrial aspartate efflux.

For Research Use Only