Recombinant SLC25A12 Monoclonal Antibody

catalog number: **AN301939L**

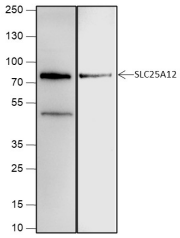
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Rat;Mouse
Immunogen	Recombinant human SLC25A12 fragment
Host	Rabbit
Isotype	IgG, κ
Clone	C121560
Purification	Protein A purified
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

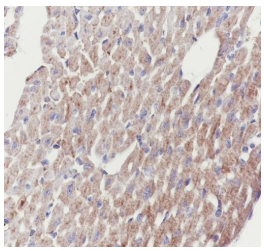
Data



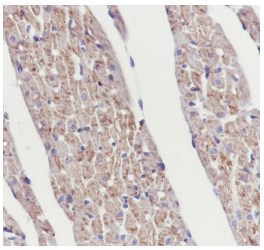
Western Blot with SLC25A12 Monoclonal Antibody at dilution of 1:5000. Lane 1: HeLa, Lane 2: Mouse skeletal muscle

Observed-MW:75 kDa

Calculated-MW:75 kDa



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

Background

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.

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