

Product Name: KD-Validated SLC25A12 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00874

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 74.8kDa

Antigen Information

Gene Name	SLC25A12
Alternative Names	SLC25A12; Solute Carrier Family 25 Member 12; Aralar; AGC1; Electrogenic Aspartate/Glutamate Antiporter SLC25A12, Mitochondrial; Aralar1; Solute Carrier Family 25 (Mitochondrial Carrier, Aralar), Member 12; Solute Carrier Family 25 (Aspartate/Glutamate Carrier), Member 12; Mitochondrial Aspartate Glutamate Carrier 1; Aspartate/Glutamate Carrier 1; Araceli Hiperlarga; Calcium Binding Mitochondrial Carrier Superfamily Member Aralar1; Calcium-Binding Mitochondrial Carrier Protein Aralar1; ARALAR1; EIEE39; DEE39
Gene ID	8604.0
SwissProt ID	O75746
Immunogen	A synthesized peptide derived from human SLC25A12

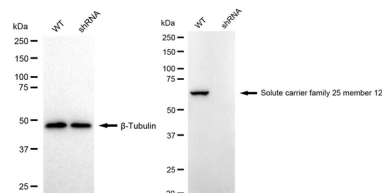
Background

This gene encodes a calcium-binding mitochondrial carrier protein. The encoded protein localizes to the mitochondria and is involved in the exchange of aspartate for glutamate across the inner mitochondrial membrane. Polymorphisms in this gene may be associated with autism, and mutations in this gene may also be a cause of global cerebral hypomyelination. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Apr 2012]

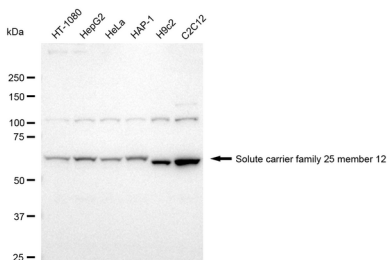
Research Area

Neuroscience, Tags & Cell Markers, Signal Transduction, Neuroscience, Metabolism

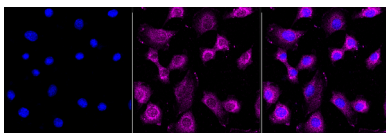
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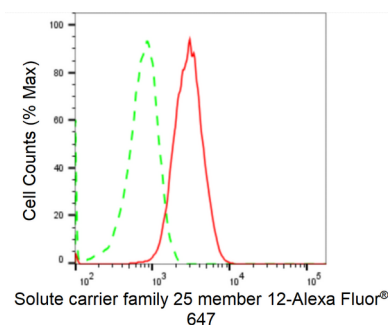
Western blotting analysis using solute carrier family 25 member 12 antibody (KVA00874). Solute carrier family 25 member 12 expression in wild type (WT) and solute carrier family 25 member 12 (SLC25A12) shRNA knockdown (KD) HeLa cells with 20 μ g of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with solute carrier family 25 member 12 antibody (KVA00874, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using solute carrier family 25 member 12 antibody (KVA00874). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with solute carrier family 25 member 12 antibody (KVA00874, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with Solute carrier family 25 member 12 antibody (KVA00874, 1:1,000). Nuclei were stained blue with DAPI; Solute carrier family 25 member 12 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 μ m.



Flow cytometric analysis of Solute carrier family 25 member 12 expression in C2C12 cells using Solute carrier family 25 member 12 antibody (KVA00874, 1:2,000). Green, isotype control; red, Solute carrier family 25 member 12.