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KD-Validated Anti-SLC25A12 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1727

Product Information

Application	WB, FC
Primary Accession	O75746
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB2340
Calculated MW	74762
Gene Name	SLC25A12
Aliases	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
Immunogen	A synthesized peptide derived from human SLC25A12

Additional Information

Gene ID	8604
Other Names	Electrogenic aspartate/glutamate antiporter SLC25A12, mitochondrial, Araceli hiperlarga, Aralar, Aralar1, Mitochondrial aspartate glutamate carrier 1, Solute carrier family 25 member 12 {ECO:0000312|HGNC:HGNC:10982}, SLC25A12 (HGNC:10982)

Protein Information

Name	SLC25A12 (HGNC:10982)
Function	Mitochondrial electrogenic aspartate/glutamate antiporter that favors efflux of aspartate and entry of glutamate and proton within the mitochondria as part of the malate-aspartate shuttle (PubMed:11566871, PubMed:19641205, PubMed:24515575, PubMed:38945283). Also mediates the uptake of L-cysteinesulfinate (3-sulfino-L-alanine) by mitochondria in exchange of L-glutamate and proton (PubMed:11566871). Can also exchange L-cysteinesulfinate with aspartate in their anionic form without any proton translocation (PubMed:11566871). Lacks transport activity towards L-glutamine or gamma-aminobutyric acid (GABA) (PubMed:38945283).
Cellular Location	Mitochondrion inner membrane; Multi-pass membrane protein

Tissue Location	Expressed predominantly in the heart and skeletal muscle, weakly in brain and kidney.

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