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Anti-SLC25A12 Rabbit Monoclonal Antibody

Catalog # ABO16531

Product Information

Application	WB, IP
Primary Accession	O75746
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-SLC25A12 Rabbit Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

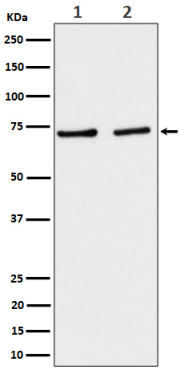
Gene ID	8604
Other Names	Electrogenic aspartate/glutamate antiporter SLC25A12, mitochondrial, Araceli hiperlarga, Aralar, Aralar1, Mitochondrial aspartate glutamate carrier 1, Solute carrier family 25 member 12 {ECO:0000312|HGNC:HGNC:10982}, SLC25A12 (HGNC:10982)
Calculated MW	74762
Application Details	WB 1:500-1:2000 IP 1:50
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 30S67
Immunogen	A synthesized peptide derived from human SLC25A12
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

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.

Images



Western blot analysis of SLC25A12 expression in (1) A431 cell lysate; (2) NIH/3T3 cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.