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Anti-SLC25A11 Antibody (Internal)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17423

Product Information

Application	WB, IHC-P
Primary Accession	Q02978
Predicted	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34062
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	8402
Alias Symbol	SLC25A11
Other Names	SLC25A11, OGC, SLC20A4, OGCP, Oxoglutarate carrier, Oxoglutarate translocator, Oxoglutarate/malate carrier
Target/Specificity	Recognizes endogenous levels of SLC25A11 protein.
Reconstitution & Storage	PBS, pH 7.3, 0.01% sodium azide, 30% glycerol. Store at -20°C. Aliquot to avoid freeze/thaw cycles.
Precautions	Anti-SLC25A11 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC25A11
Synonyms	OGC {ECO:0000312|HGNC:HGNC:10981}, SLC20
Function	Catalyzes the transport of 2-oxoglutarate (alpha- oxoglutarate) across the inner mitochondrial membrane in an electroneutral exchange for malate (PubMed:25637873, PubMed:38937634). Can also exchange 2-oxoglutarate for other dicarboxylic acids such as malonate, succinate, maleate and oxaloacetate, although with lower affinity (By similarity). Substrate exchange across the membrane occurs consecutively with one substrate being transported first, then dissociating from the substrate binding site before the second substrate binds for transport in the opposite direction (PubMed:38937634). Does not transport glutathione (PubMed:25637873). In addition can facilitate proton transport in the presence of protonophores such as long-chain fatty acids, contributing to mitochondrial uncoupling and

	regulation of mitochondrial energetic efficiency (By similarity). Contributes to several metabolic processes, including the malate-aspartate shuttle, the oxoglutarate/isocitrate shuttle, gluconeogenesis from lactate, and nitrogen metabolism (By similarity). Maintains mitochondrial fusion and fission events, and the organization and morphology of cristae (PubMed:21448454). Involved in the regulation of apoptosis (By similarity).
Cellular Location	Mitochondrion inner membrane {ECO:0000250|UniProtKB:P97700}; Multi-pass membrane protein
Tissue Location	Most highly expressed in the heart.

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