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Anti-SLC25A11 Antibody

Catalog # AP53711

Product Information

Application	WB, IF/IC
Primary Accession	Q02978
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34062

Additional Information

Gene ID	8402
Other Names	SLC20A4; Mitochondrial 2-oxoglutarate/malate carrier protein; OGCP; Solute carrier family 25 member 11
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SLC25A11. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

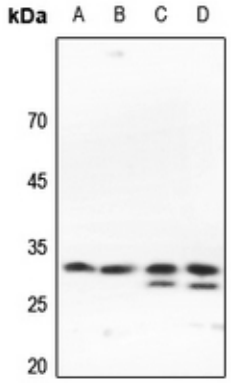
Name	SLC25A11
Synonyms	OGC {ECO:0000312|HGNC:HGNC:10981}, SLC20
Function	Catalyzes the transport of 2-oxoglutarate (alpha- oxoglutarate) across the inner mitochondrial membrane in an electroneutral exchange for malate (PubMed:25637873, PubMed:38937634). Can also exchange 2-oxoglutarate for other dicarboxylic 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).

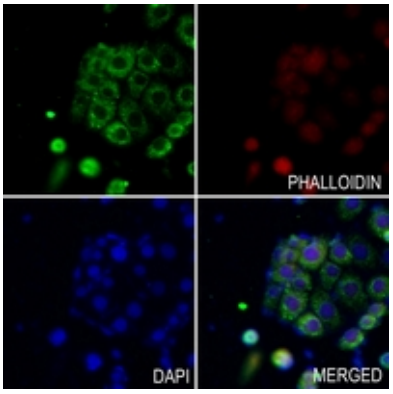
Cellular Location Mitochondrion inner membrane {ECO:0000250|UniProtKB:P97700}; Multi-pass membrane protein

Tissue Location Most highly expressed in the heart.

Images



Western blot analysis of SLC25A11 expression in HEK293T (A), Hela (B), rat kidney (C), rat spleen (D) whole cell lysates. (Predicted band size: 34 kD; Observed band size: 34; 28 kD)



Immunofluorescent analysis of SLC25A11 staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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