SLC25A11 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SLC25A11, Polyclonal Antibody
Full Product Name	SLC25A11 Conjugated Antibody
Product Gene Name	anti-SLC25A11 antibody
Product Synonym Names	Mitochondrial 2-oxoglutarate/malate carrier protein; OGCP; Solute carrier family 25 member 11
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total SLC25A11 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	34,062 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (4840425..4843462, complement). Location: 17p13.3
OMIM	604165
3D Structure	ModBase 3D Structure for Q02978
Immunogen	Synthesized peptide derived from internal of human SLC25A11.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-SLC25A11 antibody	Most Applications
Application Notes for anti-SLC25A11 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-SLC25A11 antibody	Catalyzes the transport of 2-oxoglutarate across the inner mitochondrial membrane in an electroneutral exchange for malate or other dicarboxylic acids, and plays an important role in several metabolic processes, including the malate-aspartate shuttle, the oxoglutarate/isocitrate shuttle, in gluconeogenesis from lactate, and in nitrogen metabolism.
Other Notes	Small volumes of anti-SLC25A11 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SLC25A11 purchase	MBS9445547 is an antibody targeting SLC25A11. Also known as SLC25A11 Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC25A11. It may not necessarily be applicable to this product.

NCBI GI #	21361114
NCBI GeneID	8402
NCBI Accession #	NP_003553.2
UniProt Primary Accession #	Q02978
UniProt Secondary Accession #	O75537; Q969P7
UniProt Related Accession #	Q02978
GenBank Nucleotide #	NM_003562.4
NCBI Official Full Name	mitochondrial 2-oxoglutarate/malate carrier protein isoform 1
NCBI Official Synonym Full Names	solute carrier family 25 (mitochondrial carrier; oxoglutarate carrier), member 11
NCBI Official Symbol	SLC25A11
NCBI Official Synonym Symbols	OGC; SLC20A4
UniProt Protein Name	Mitochondrial 2-oxoglutarate/malate carrier protein
UniProt Synonym Protein Names	Solute carrier family 25 member 11
Protein Family	Mitochondrial 2-oxoglutarate/malate carrier protein
UniProt Gene Name	SLC25A11
UniProt Synonym Gene Names	SLC20A4; OGCP
UniProt Entry Name	M2OM_HUMAN
NCBI Protein Information	mitochondrial 2-oxoglutarate/malate carrier protein; OGCP; solute carrier family 25 member 11; solute carrier family 20 (oxoglutarate carrier), member 4
NCBI Summary for SLC25A11	The oxoglutarate/malate carrier transports 2-oxoglutarate across the inner membranes of mitochondria in an electroneutral exchange for malate or other dicarboxylic acids (summary by Iacobazzi et al., 1992 [PubMed 1457818]).[supplied by OMIM, Jan 2011]
UniProt Comments for SLC25A11	SLC25A11: Catalyzes the transport of 2-oxoglutarate across the inner mitochondrial membrane in an electroneutral exchange for malate or other dicarboxylic acids, and plays an important role in several metabolic processes, including the malate-aspartate shuttle, the oxoglutarate/isocitrate shuttle, in gluconeogenesis from lactate, and in nitrogen metabolism. Belongs to the mitochondrial carrier family. Protein type: Transporter, SLC family; Membrane protein, multi-pass; Mitochondrial; Membrane protein, integral; Transporter Chromosomal Location of Human Ortholog: 17p13.3 Cellular Component: mitochondrion; integral to plasma membrane; mitochondrial inner membrane; nucleus Molecular Function: oxoglutarate:malate antiporter activity Biological Process: alpha-ketoglutarate transport; transport; carbohydrate metabolic process; glucose metabolic process; pathogenesis; gluconeogenesis
Research Articles on SLC25A11	**1.** OGC as a model protein for understanding the transport mechanism of mitochondrial carriers.
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