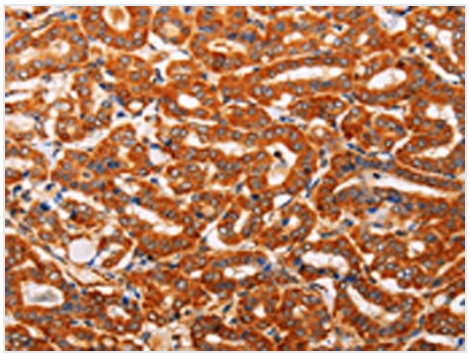
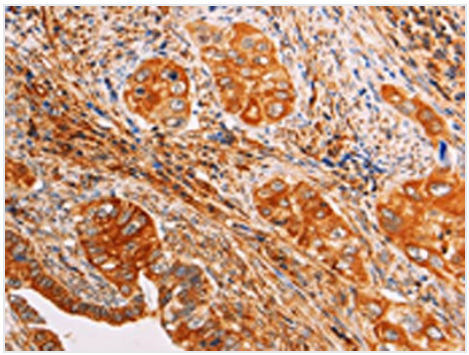
SLC25A4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

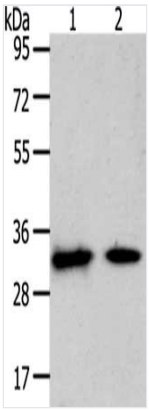
Product Name	SLC25A4, Polyclonal Antibody
Full Product Name	SLC25A4 Antibody
Product Gene Name	anti-SLC25A4 antibody
Product Synonym Names	Solute carrier family 25 (mitochondrial carrier; adenine Nucleotide Translocator); member 4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol
Purity/Purification	Antigen Affinity Purification
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	298
OMIM	phenotype 615418
3D Structure	ModBase 3D Structure for P12235
Immunogen	Synthetic peptide of human SLC25A4
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-SLC25A4 antibody	Cell Biology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SLC25A4 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-SLC25A4 antibody	ELISA: 1:2000-1:5000 WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-SLC25A4 antibody	MBS7128347 is an antibody targeting SLC25A4. Also known as SLC25A4 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-SLC25A4 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.



Immunohistochemistry (IHC)-Paraffin of anti-SLC25A4 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using MBS7128347(SLC25A4 Antibody) at dilution 1/40, on the right is treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry (IHC)-Paraffin of anti-SLC25A4 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human cervical cancer tissue using MBS7128347(SLC25A4 Antibody) at dilution 1/40, on the right is treated with synthetic peptide. (Original magnification: ×200)



SDS-Page of anti-SLC25A4 antibody
Gel: 10%SDS-PAGE, Lysate: 40 ug, Lane 1-2: Mouse heart tissue, Mouse muscle tissue, Primary antibody: MBS7128347(SLC25A4 Antibody) at dilution 1/400, Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution, Exposure time: 1 minute

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC25A4. It may not necessarily be applicable to this product.

NCBI GI #	113455
NCBI GeneID	291
NCBI Accession #	P12235.4
UniProt Primary Accession #	P12235
UniProt Secondary Accession #	D3DP59
UniProt Related Accession #	P12235
NCBI Official Full Name	ADP/ATP translocase 1
NCBI Official Synonym Full Names	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 4
NCBI Official Symbol	SLC25A4
NCBI Official Synonym Symbols	1; T1; ANT; AAC1; ANT1; PEO2; PEO3; ANT 1; MTDPS12
UniProt Protein Name	ADP/ATP translocase 1
UniProt Synonym Protein Names	ADP,ATP carrier protein 1; ADP,ATP carrier protein, heart/skeletal muscle isoform T1; Adenine nucleotide translocator 1; ANT 1; Solute carrier family 25 member 4
Protein Family	ADP/ATP translocase
UniProt Gene Name	SLC25A4

UniProt Synonym Gene Names	ANT1; ANT 1
UniProt Entry Name	ADT1_HUMAN
NCBI Protein Information	ADP/ATP translocase 1; ADP,ATP carrier protein 1; solute carrier family 25 member 4; heart/skeletal muscle ATP/ADP translocator; ADP,ATP carrier protein, heart/skeletal muscle; adenine nucleotide translocator 1 (skeletal muscle)
NCBI Summary for SLC25A4	This gene is a member of the mitochondrial carrier subfamily of solute carrier protein genes. The product of this gene functions as a gated pore that translocates ADP from the cytoplasm into the mitochondrial matrix and ATP from the mitochondrial matrix into the cytoplasm. The protein forms a homodimer embedded in the inner mitochondria membrane. Mutations in this gene have been shown to result in autosomal dominant progressive external opthalmoplegia and familial hypertrophic cardiomyopathy. [provided by RefSeq, Jun 2013]
UniProt Comments for SLC25A4	SLC25A4: Catalyzes the exchange of cytoplasmic ADP with mitochondrial ATP across the mitochondrial inner membrane. Defects in SLC25A4 are a cause of progressive external ophthalmoplegia with mitochondrial DNA deletions autosomal dominant type 2 (PEOA2). Progressive external ophthalmoplegia is characterized by progressive weakness of ocular muscles and levator muscle of the upper eyelid. In a minority of cases, it is associated with skeletal myopathy, which predominantly involves axial or proximal muscles and which causes abnormal fatigability and even permanent muscle weakness. Ragged- red fibers and atrophy are found on muscle biopsy. A large proportion of chronic ophthalmoplegias are associated with other symptoms, leading to a multisystemic pattern of this disease. Additional symptoms are variable, and may include cataracts, hearing loss, sensory axonal neuropathy, ataxia, depression, hypogonadism, and parkinsonism. Belongs to the mitochondrial carrier family. Protein type: Membrane protein, multi-pass; Membrane protein, integral; Transporter; Transporter, SLC family; Mitochondrial Chromosomal Location of Human Ortholog: 4q35 Cellular Component: mitochondrion; integral to plasma membrane; mitochondrial inner membrane; nucleus Molecular Function: protein binding; adenine transmembrane transporter activity Biological Process: adenine transport; mitochondrial genome maintenance; apoptotic mitochondrial changes; generation of precursor metabolites and energy; viral reproduction; transport; energy reserve metabolic process; regulation of insulin secretion; transmembrane transport Disease: Mitochondrial Dna Depletion Syndrome 12 (cardiomyopathic Type); Progressive External Ophthalmoplegia With Mitochondrial Dna Deletions, Autosomal Dominant, 2
Research Articles on SLC25A4	**1.** Mitochondrial DNA (mtDNA) content plays an important role in energy production and sustaining normal physiological function.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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