COX7A2L Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	COX7A2L, Polyclonal Antibody
Full Product Name	COX7A2L Antibody
Product Gene Name	anti-COX7A2L antibody
Product Synonym Names	EB1; SIG81; COX7AR; COX7RP
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Specificity	The antibody detects endogenous levels of total COX7A2L protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	12,615 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (42577640..42596150, complement). Location: 2p21
OMIM	605771
3D Structure	ModBase 3D Structure for O14548
Immunogen	Synthetic peptide of human COX7A2L
Product Categories/Family for anti-COX7A2L antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-COX7A2L antibody	Immunohistochemistry (IHC)
Application Notes for anti-COX7A2L antibody	IHC: 1:20-1:100
Related Product Information for anti-COX7A2L antibody	Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes a protein similar to polypeptides 1 and 2 of subunit VIIa in the C-terminal region, and also highly similar to the mouse Sig81 protein sequence. This gene is expressed in all tissues, and upregulated in a breast cancer cell line after estrogen treatment. It is possible that this gene represents a regulatory subunit of COX and mediates the higher level of energy production in target cells by estrogen
Other Notes	Small volumes of anti-COX7A2L 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 COX7A2L purchase	MBS8593888 is an antibody targeting COX7A2L. Also known as COX7A2L Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COX7A2L. It may not necessarily be applicable to this product.

NCBI GI #	18105037
NCBI GeneID	9167
NCBI Accession #	NP_004709.2
UniProt Primary Accession #	O14548
UniProt Secondary Accession #	Q9P118
UniProt Related Accession #	O14548
GenBank Nucleotide #	NM_004718.2
NCBI Official Full Name	cytochrome c oxidase subunit 7A-related protein, mitochondrial
NCBI Official Synonym Full Names	cytochrome c oxidase subunit VIIa polypeptide 2 like
NCBI Official Symbol	COX7A2L
NCBI Official Synonym Symbols	EB1; SIG81; COX7AR; COX7RP
UniProt Protein Name	Cytochrome c oxidase subunit 7A-related protein, mitochondrial
UniProt Synonym Protein Names	COX7a-related protein; Cytochrome c oxidase subunit VIIa-related protein; EB1
Protein Family	Cytochrome c oxidase subunit 7A-related protein
UniProt Gene Name	COX7A2L
UniProt Synonym Gene Names	COX7AR; COX7RP
UniProt Entry Name	COX7R_HUMAN
NCBI Protein Information	cytochrome c oxidase subunit 7A-related protein, mitochondrial; COX7a-related protein; estrogen receptor binding CpG island; cytochrome c oxidase subunit VII-related protein; cytochrome c oxidase subunit VIIa-related protein
NCBI Summary for COX7A2L	Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes a protein similar to polypeptides 1 and 2 of subunit VIIa in the C-terminal region, and also highly similar to the mouse Sig81 protein sequence. This gene is expressed in all tissues, and upregulated in a breast cancer cell line after estrogen treatment. It is possible that this gene represents a regulatory subunit of COX and mediates the higher level of energy production in target cells by estrogen. [provided by RefSeq, Jul 2008]
UniProt Comments for COX7A2L	Function: May be a regulatory subunit of cytochrome c oxidase that mediates the higher level of energy production in target cells by estrogen. Subcellular location: Mitochondrion inner membrane By similarity. Induction: By estrogen. Sequence similarities: Belongs to the cytochrome c oxidase VIIa family.
Research Articles on COX7A2L	**1.** Novel insights into the assembly and function of human nuclear-encoded cytochrome c oxidase subunits 7a

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