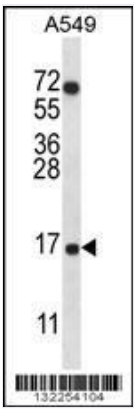
COX7A2L Antibody – Rabbit Polyclonal

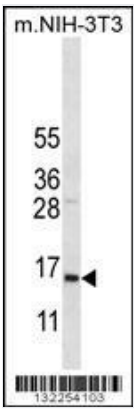
PRODUCT OVERVIEW

Product Name	COX7A2L, Polyclonal Antibody
Full Product Name	COX7A2L, ID (COX7A2L, COX7AR, COX7RP, Cytochrome c oxidase subunit 7A-related protein, mitochondrial, COX7a-related protein, Cytochrome c oxidase subunit VIIa-related protein, EB1) (AP)
Product Gene Name	anti-COX7A2L antibody
Product Synonym Names	COX7A2L; COX7AR; COX7RP; Cytochrome c oxidase subunit 7A-related protein, mitochondrial; COX7a-related protein; Cytochrome c oxidase subunit VIIa-related protein; EB1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
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	COX7A2L antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 36-65 amino acids from the Central region of human COX7A2L.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-COX7A2L antibody	Antibodies; Enzymes; Cytochrome
Applications Tested/Suitable for anti-COX7A2L antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-COX7A2L antibody	IHC: 1:10-50 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.

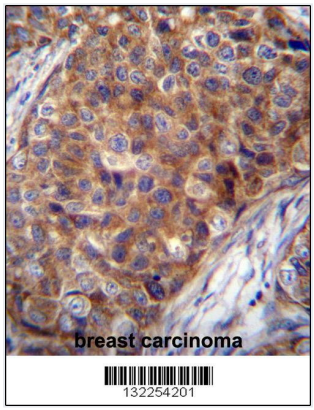
Related Product Information for anti-COX7A2L antibody	Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial 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.
Product References and Citations for anti-COX7A2L antibody	Fornuskova, D., et al. Biochem. J. 428(3):363-374(2010). Wheeler, H.E., et al. PLoS Genet. 5 (10), E1000685 (2009): Wang, L., et al. Cancer Epidemiol. Biomarkers Prev. 17(12):3558-3566(2008). Schmidt, T.R., et al. J. Mol. Evol. 57(2):222-228(2003). Lee, N., et al. Am. J. Hum. Genet. 68(2):397-409(2001).
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	MBS6288153 is an antibody targeting COX7A2L. Also known as COX7A2L, ID (COX7A2L, COX7AR, COX7RP, Cytochrome c oxidase subunit 7A-related protein, mitochondrial, COX7a-related protein, Cytochrome c oxidase subunit VIIa-related protein, EB1) (AP). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-COX7A2L antibody
COX7A2L Antibody (Center) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the COX7A2L antibody detected the COX7A2L protein (arrow).



Western Blot (WB) of anti-COX7A2L antibody
COX7A2L Antibody (Center) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the COX7A2L antibody detected the COX7A2L protein (arrow).



Immunohistochemistry (IHC) of anti-COX7A2L antibody
COX7A2L Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of COX7A2L Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

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
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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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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