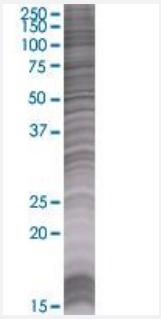
COX7A2L 293T Cell Transient Overexpression Lysate(Denatured)

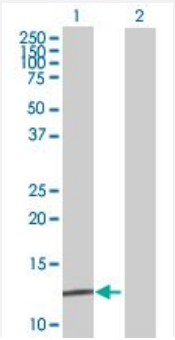
Catalog # H00009167-T02 Size 100 uL

Applications



SDS-PAGE Gel

COX7A2L transfected lysate.



Western Blot

Lane 1: COX7A2L transfected lysate (12.65 KDa)
Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-COX7A2L full-length
Host	Human
Theoretical MW (kDa)	12.65
Quality Control Testing	Transient overexpression cell lysate was tested with Anti-COX7A2L antibody (H00009167-B02) by Western Blots. SDS-PAGE Gel COX7A2L transfected lysate. Western Blot Lane 1: COX7A2L transfected lysate (12.65 KDa) Lane 2: Non-transfected lysate.

Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — COX7A2L

Entrez GeneID	9167
GeneBank Accession#	NM_004718.2
Protein Accession#	NP_004709.2
Gene Name	COX7A2L
Gene Alias	COX7AR, COX7RP, EB1, SIG81
Gene Description	cytochrome c oxidase subunit VIIa polypeptide 2 like
Omim ID	605771
Gene Ontology	Hyperlink
Gene Summary	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
Other Designations	OTTHUMP00000158765|cytochrome c oxidase subunit VII-related protein|estrogen receptor binding CpG island

Pathway

- Cardiac muscle contraction

- Oxidative phosphorylation

Disease

- Genetic Predisposition to Disease
- Prostatic Neoplasms