OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA501432AM

COX6A1 Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI3A5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3A5
Applications:	FC, IF
Recommended Dilution:	IF 1:100, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human COX6A1 (NP_004364) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	9.6 kDa
Gene Name:	cytochrome c oxidase subunit 6A1
Database Link:	NP_004364 Entrez Gene 1337 Human P12074

View online »

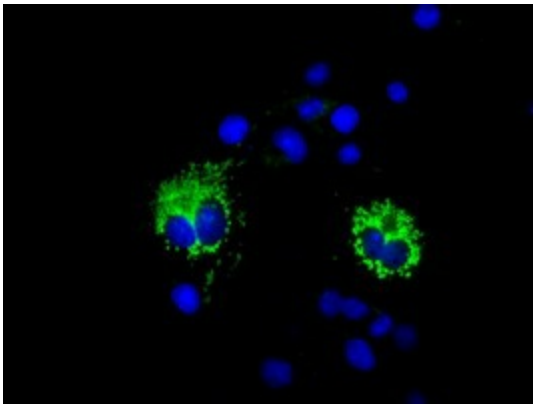
Background: Cytochrome c oxidase (COX), the terminal enzyme of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. It is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in the electron transfer and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes polypeptide 1 (liver isoform) of subunit VIa, and polypeptide 1 is found in all non-muscle tissues. Polypeptide 2 (heart/muscle isoform) of subunit VIa is encoded by a different gene, and is present only in striated muscles. These two polypeptides share 66% amino acid sequence identity. It has been reported that there may be several pseudogenes on chromosomes 1, 6, 7q21, 7q31-32 and 12. However, only one pseudogene (COX6A1P) on chromosome 1p31.1 has been documented. [provided by RefSeq]

Synonyms: CMTRID; COX6A; COX6AL

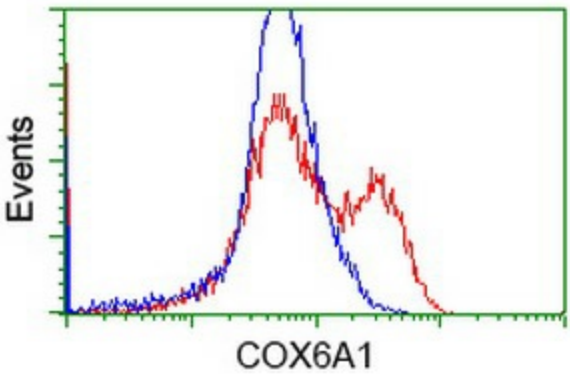
Protein Families: Transmembrane

Protein Pathways: Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

Product images:



Anti-COX6A1 mouse monoclonal antibody ([TA501432]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY COX6A1 ([RC210485]).



HEK293T cells transfected with either [RC210485] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-COX6A1 antibody ([TA501432]), and then analyzed by flow cytometry.