

## Product datasheet for **TA506178AM**

### Cytochrome C Oxidase subunit VIc (COX6C) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI4A5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4A5
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:4000, IHC 1:150, IF 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human COX6C(NP_004365) 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:	8.6 kDa
Gene Name:	cytochrome c oxidase subunit 6C
Database Link:	<a href="#">NP_004365</a> <a href="#">Entrez Gene 1345 Human</a> <a href="#">P09669</a>



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**Background:**

Cytochrome c oxidase, 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 electron transfer, and the nuclear-encoded subunits may be involved in the regulation and assembly of the complex. This nuclear gene encodes subunit VIc, which has 77% amino acid sequence identity with mouse subunit VIc. This gene is up-regulated in prostate cancer cells. A pseudogene has been found on chromosomes 16p12. [provided by RefSeq, Jul

**Synonyms:**

cytochrome c oxidase subunit VIc; cytochrome c oxidase subunit VIc preprotein

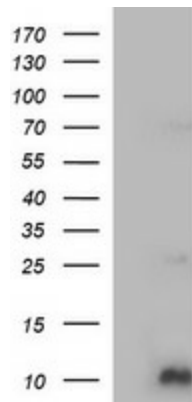
**Protein Families:**

Transmembrane

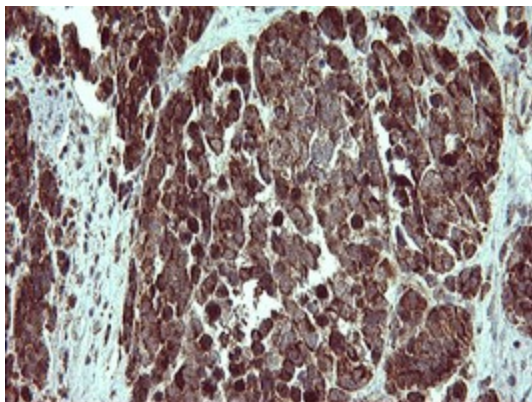
**Protein Pathways:**

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

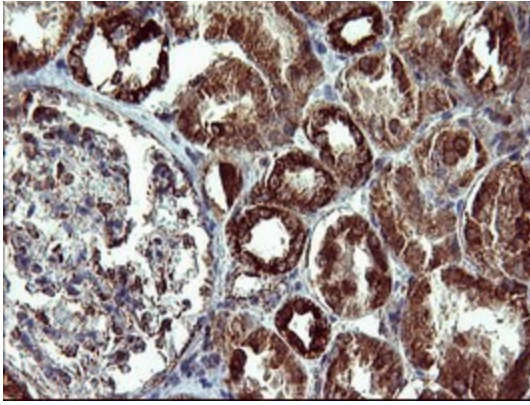
**Product images:**



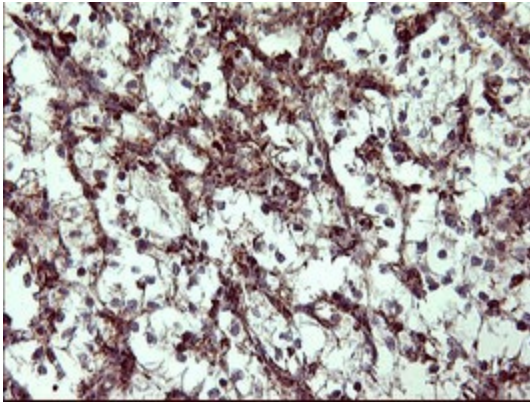
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY COX6C ([RC200374], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-COX6C. Positive lysates [LY418028] (100ug) and [LC418028] (20ug) can be purchased separately from OriGene.



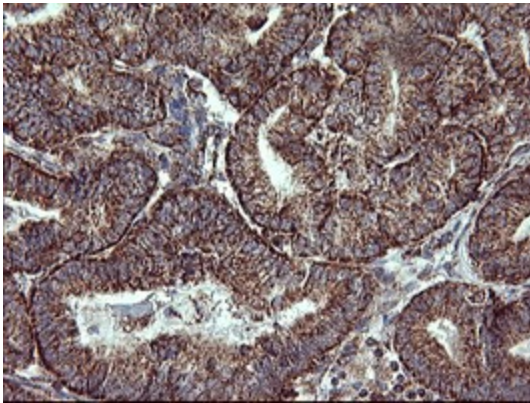
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-COX6C mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA506178])



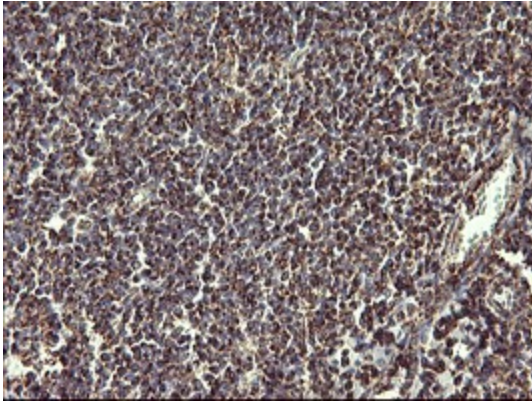
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-COX6C mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA506178])



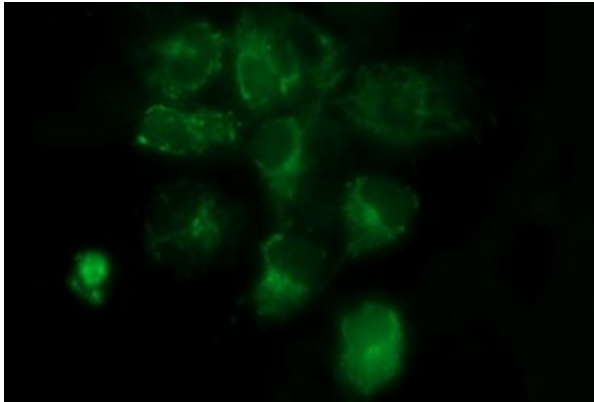
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-COX6C mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA506178])



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-COX6C mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA506178])



Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-COX6C mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA506178])



Anti-COX6C mouse monoclonal antibody ([TA506178]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY COX6C ([RC200374]).