

## Product datasheet for **TA812118BM**

### COX17 Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI2D7]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2D7
Applications:	IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:500
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 2-63 of human COX17 (NP_005685) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	HRP
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	COX17 cytochrome c oxidase copper chaperone
Database Link:	<a href="#">NP_005685</a> <a href="#">Entrez Gene 12856 Mouse</a> <a href="#">Entrez Gene 89786 Rat</a> <a href="#">Entrez Gene 10063 Human</a> <a href="#">Q14061</a>



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**Background:**

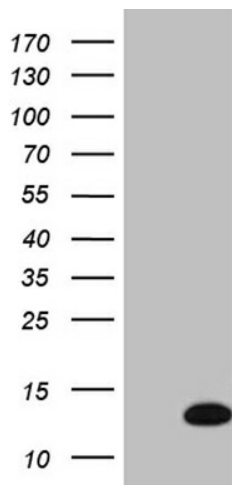
Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded 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 which is not a structural subunit, but may be involved in the recruitment of copper to mitochondria for incorporation into the COX apoenzyme. This protein shares 92% amino acid sequence identity with mouse and rat Cox17 proteins. This gene is no longer considered to be a candidate gene for COX deficiency. A pseudogene COX17P has been found on chromosome 13. [provided by RefSeq, Jul 2008]

**Synonyms:**

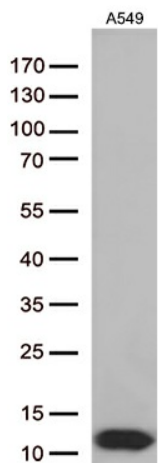
MGC104397; MGC117386

**Protein Pathways:**

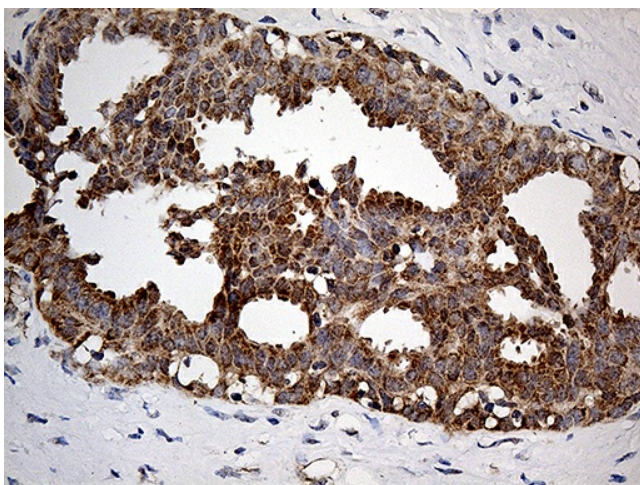
Metabolic pathways, Oxidative phosphorylation

**Product images:**

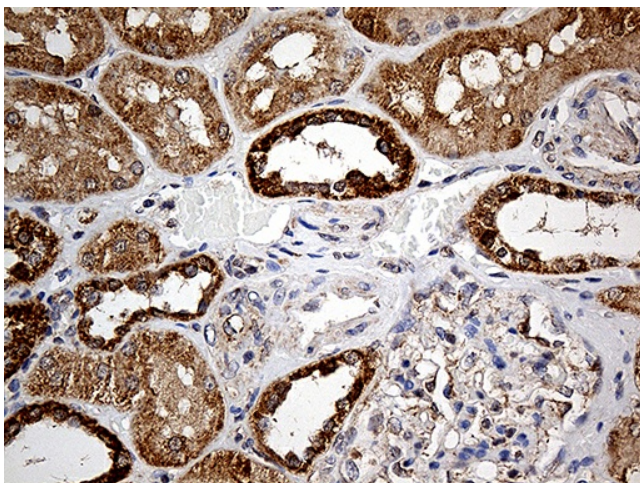
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY COX17 ([RC210756], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-COX17 (1:2000).



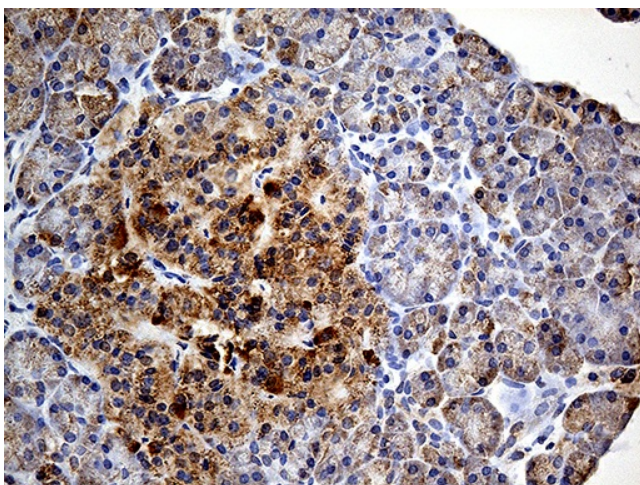
Western blot analysis of extracts (35ug) from A549 cells by using anti-COX17 monoclonal antibody (1:500).



Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-COX17 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA812118]) (1:500)



Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-COX17 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA812118]) (1:500)



Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-COX17 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA812118]) (1:500)