

## Product datasheet for **TA328075**

### COX15 Mouse Monoclonal Antibody [Clone ID: 6H2.B4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	6H2.B4
Applications:	IF, IP
Recommended Dilution:	IP, ICFC, IF, ICC
Reactivity:	Mouse, Rat, Human
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Rat cyt c-OVA
Formulation:	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. Final antibody concentration is 0.5 mg/ml.
Concentration:	lot specific
Purification:	The antibody was purified by affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	15 kD
Gene Name:	COX15 cytochrome c oxidase assembly homolog
Database Link:	<a href="#">NP_004367</a> <a href="#">Entrez Gene 226139 Mouse</a> <a href="#">Entrez Gene 309391 Rat</a> <a href="#">Entrez Gene 1355 Human</a> <a href="#">Q7KZN9</a>



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**Background:**

Cytochrome c is a 15 kD protein found in the mitochondrial intermembrane space with a heme-binding domain. Cytochrome c is a component of the electron transport chain; the heme group transfers electrons from cytochrome b-c1 complex to cytochrome oxidase complex. Cytochrome c initiates apoptosis by release to cytoplasm and binding Apaf-1 which activates procaspase 9. Cytochrome c interacts with the cytochrome b-c1 complex, cytochrome oxidase complex, heme, Apaf-1, and Caspase 9 proteins. The 6H2.B4 monoclonal antibody recognizes human, mouse, and rat cytochrome-c and has been shown to be useful for intracellular flow cytometric staining, Western blotting, immunoprecipitation, and immunofluorescence staining.

**Synonyms:**

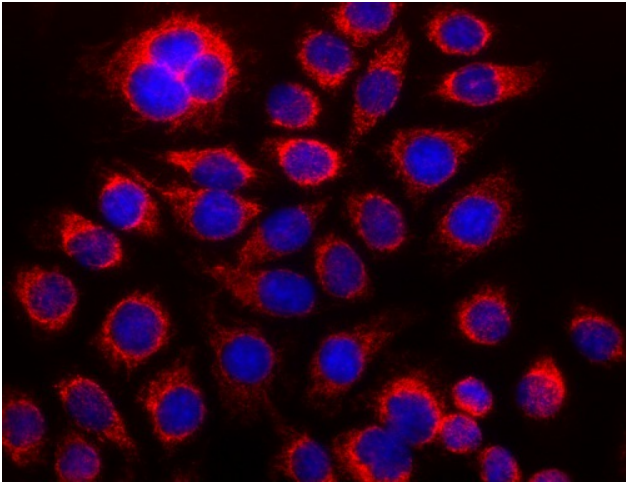
CEMCOX2

**Protein Families:**

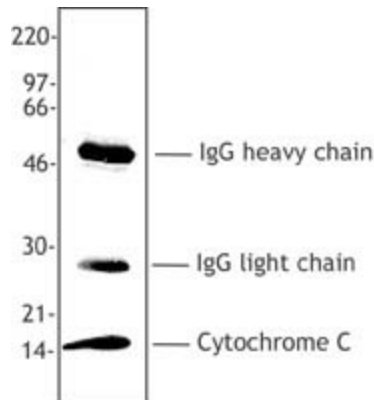
Transmembrane

**Protein Pathways:**

Metabolic pathways, Oxidative phosphorylation, Porphyrin and chlorophyll metabolism

**Product images:**


HeLa cells were fixed with 1% paraformaldehyde (PFA) for 10 minutes, permeabilized with 0.5% Triton X-100 for 10 minutes, and blocked with 5% FBS for 30 minutes. Then the cells were intracellularly stained with 5 ug/ml of purified cytochrome c (clone 6H2.B4) in blocking buffer overnight at 4°C, and followed by DyLight™ 594 anti-mouse IgG (red) staining for 2 hours at 4°C. Nuclei were counterstained with DAPI and are shown in blue. The image was captured with 40X objective.



Cytochrome c was immunoprecipitated from Hela cell extract (1% NP-40) using 2-4 ug 6H2.B4 antibody/1 x10<sup>7</sup> cell equivalents. Immunoprecipitates were resolved by electrophoresis, transferred to nitrocellulose, and probed with the 7H8.2C12 anti-cytochrome c antibody. In addition to the specific 15 kD cytochrome c band immunoprecipitated by 6H2.B4, heavy and light immunoglobulin chains are recognized by the goat anti-mouse secondary antibody.