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# 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 |
| **Recommend Dilution:** | IP, ICFC, IF, ICC |
| **Reactivity:** | Human, Mouse, Rat |
| **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:** | 0.5 mg/ml |
| **Purification:** | The antibody was purified by affinity chromatography. |
| **Predicted Protein Size:** | 15 kD |
| **Gene Name:** | COX15 cytochrome c oxidase assembly homolog |
| **Database Link:** | NP_004367 Entrez Gene 226139 MouseEntrez Gene 309391 RatEntrez Gene 1355 Human |
| **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 |

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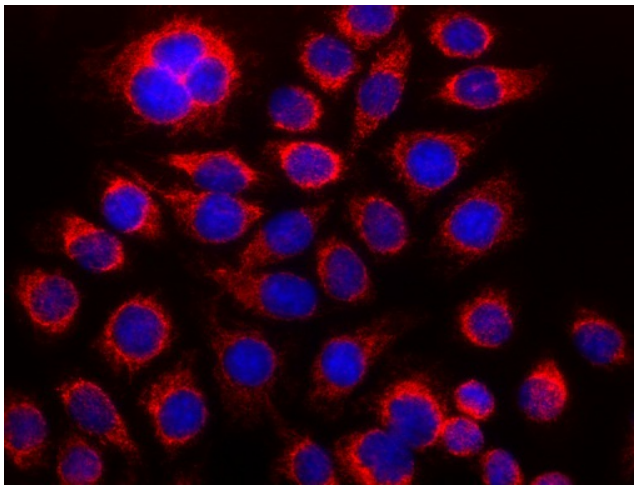
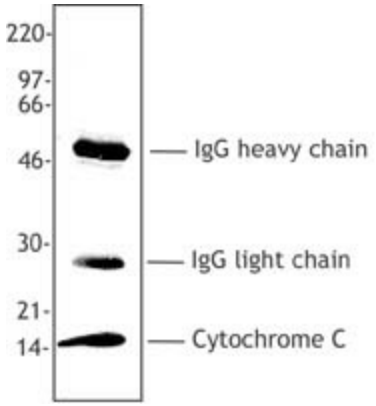
## Product images:



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 x107 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.