

**Biotin anti-Cytochrome c**

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| <b>Catalog # / Size:</b> | 3661515 / 100 µg  |
| <b>Clone:</b>            | 6H2.B4  |
| <b>Isotype:</b>          | Mouse IgG1, κ   |
| <b>Immunogen:</b>        | Rat cyt c-OVA   |
| <b>Reactivity:</b>       | Human,Mouse,Rat   |
| <b>Preparation:</b>      | The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin. |
| <b>Formulation:</b>      | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.   |
| <b>Concentration:</b>    | 0.5   |

**Applications:**

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| <b>Applications:</b>           | Other  |
| <b>Recommended Usage:</b>      | Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 microg per 10 <sup>6</sup> cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.  |
| <b>Application Notes:</b>      | Additional reported applications (for the relevant formats) include: intracellular flow cytometry <sup>5</sup> , immunofluorescence microscopy <sup>3,5</sup> , immunoprecipitation <sup>4</sup> , and immunocytochemistry <sup>5</sup> .  |
| <b>Application References:</b> | <ol style="list-style-type: none"><li>1. Goshorn SC, <i>et al.</i> 1991. <i>J. Biol. Chem.</i> 266:2134.</li><li>2. Jemmerson R, <i>et al.</i> 1991. <i>Eur. J. Immunol.</i> 21:143.</li><li>3. Chandra D, <i>et al.</i> 2002. <i>J. Biol. Chem.</i> 277:50842. (IF)</li><li>4. Semenkova L, <i>et al.</i> 2003. <i>Eur. J. Biochem.</i> 270:4388. (IP)</li><li>5. Shih S-F, <i>et al.</i> 2001. <i>J. Biol. Chem.</i> 276:21870. (ICFC ICC IF)</li><li>6. Zahno A, <i>et al.</i> 2011. <i>Biochem Pharmacol.</i> 81:432. <a href="#">PubMed</a></li></ol> |

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**Description:** 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.

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| <b>Antigen References:</b> | <ol style="list-style-type: none"><li>1. Liu X, <i>et al.</i> 1996. <i>Cell.</i> 86:147.</li><li>2. Li P, <i>et al.</i> 1997. <i>Cell.</i> 91:479.</li><li>3. Zhang Z, <i>et al.</i> 2003. <i>Gene</i> 312:61.</li><li>4. Ferguson H, <i>et al.</i> 2003. <i>J. Biol. Chem.</i> 278:4579</li></ol> |
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