

Purified anti-Cytochrome c

Catalog # / Size: 3661510 / 100 µg
3661505 / 25 µg

Clone: 6H2.B4

Isotype: Mouse IgG1, κ

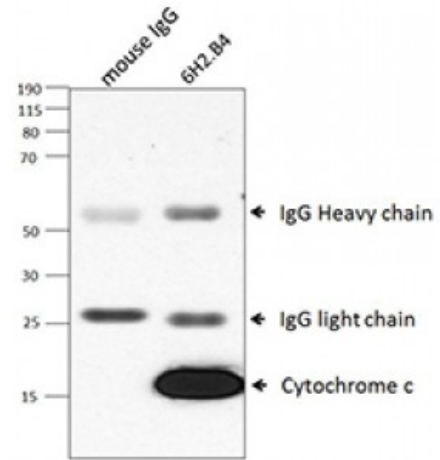
Immunogen: Rat cyt c-OVA

Reactivity: Human, Mouse, Rat

Preparation: The antibody was purified by affinity chromatography.

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



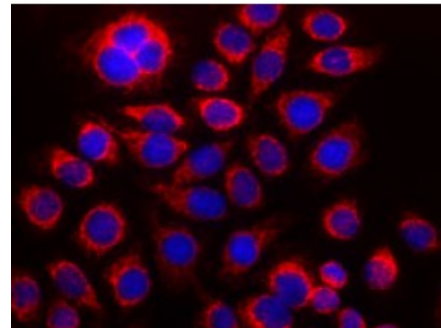
Immunoprecipitation/Western Blot analysis using purified anti-Cytochrome c antibody (6H2.B4). 800 microg of HeLa cell lysates was tested at protein concentration of 1microg/microL for each sample. Lane 1 was immunoprecipitated with control antibody

Applications:

Applications: Other

Recommended Usage: Each lot of this antibody is quality control tested . This antibody can be used at 2-4 microg /1 x10⁷ cell equivalents for immunoprecipitation. For flow cytometric staining, the suggested use of this reagent is ≤0.5 microg per 10⁶ cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: intracellular flow cytometry⁵, immunofluorescence microscopy^{3,5}, immunoprecipitation⁴, and immunocytochemistry⁵.



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 microg/ml of purified cytochrome c (clo

- Application References:**
1. Goshorn SC, *et al.* 1991. *J. Biol. Chem.* 266:2134.
 2. Jemmerson R, *et al.* 1991. *Eur. J. Immunol.* 21:143.
 3. Chandra D, *et al.* 2002. *J. Biol. Chem.* 277:50842. (IF)
 4. Semenkova L, *et al.* 2003. *Eur. J. Biochem.* 270:4388. (IP)
 5. Shih S-F, *et al.* 2001. *J. Biol. Chem.* 276:21870. (ICFC ICC IF)
 6. She P, *et al.* 2011. *Am J. Physiol Endcorinol Metab.*301:E49. [PubMed](#)
 7. McGuire, KA., *et al.* 2011. *J. Virol* 85:10806. [PubMed](#)

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.

- Antigen**
- References:**
1. Liu X, *et al.* 1996. *Cell*. 86:147.
 2. Li P, *et al.* 1997. *Cell*. 91:479.
 3. Zhang Z, *et al.* 2003. *Gene* 312:61.
 4. Ferguson H, *et al.* 2003. *J. Biol. Chem.* 278:4579