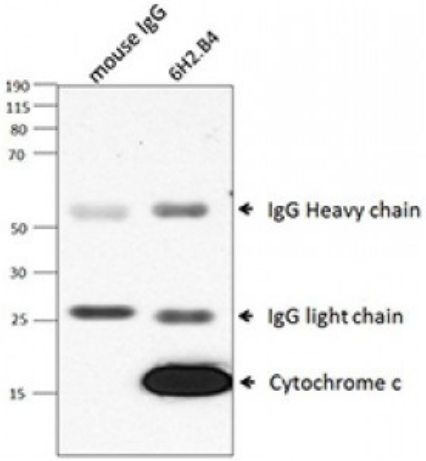
SONY

Product Data Sheet

Purified anti-Cytochrome c

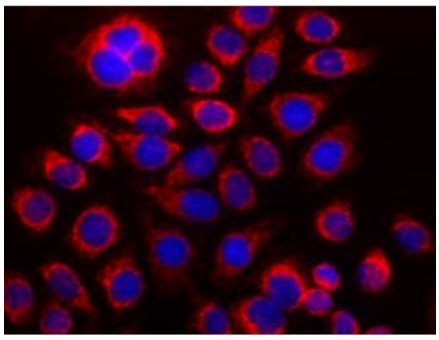
Catalog # / Size:	3661505 / 25 µg 3661510 / 100 µg
Clone:	6H2.B4
Isotype:	Mouse IgG1, κ
Immunogen:	Rat cyt c-OVA
Reactivity:	Human,Mouse,Rat
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% 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 x10^7 cell equivalents for immunoprecipitation. For flow cytometric staining, the suggested use of this reagent is ≤0.5 microg per 10^6 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

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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.

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

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