Cytochrome C Monoclonal Antibody (6H2), FITC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	6H2
Conjugate	FITC
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465365

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	5 µg/mL	-
Flow Cytometry (Flow)	1 µg/test	-

Product Specific Information

Description: The 6H2 antibody reacts with the native form of mouse, human, and rat cytochrome c.

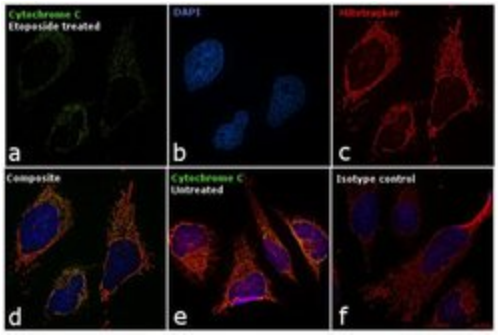
Applications Reported: The 6H2 antibody has been reported for use in intracellular flow cytometric analysis.

Applications Tested: The 6H2 antibody has been tested by intracellular flow cytometric analysis. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

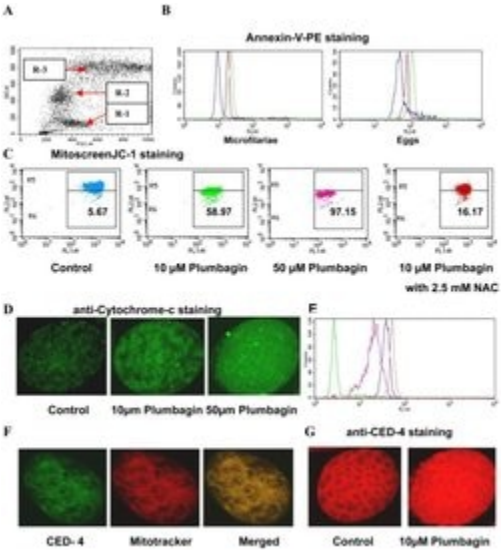
Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Advanced Verification Data

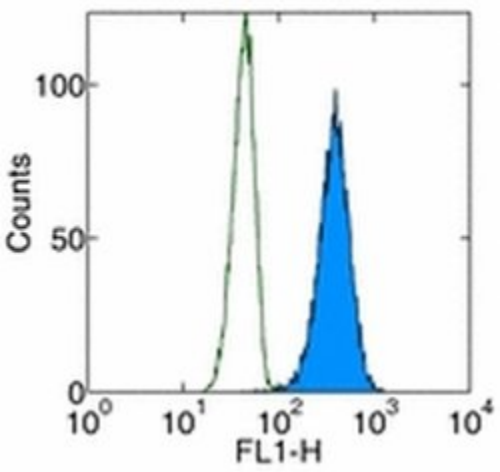


Cytochrome C Antibody (11-6601-82)
Detection of altered subcellular localization of the target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis of Cytochrome C using Cytochrome C FITC conjugated Monoclonal antibody (Product # 11-6601-82), shows change in localization of Cytochrome C from mitochondria to cytoplasm in Hela cells upon etoposide treatment. Cell treatment validation info.

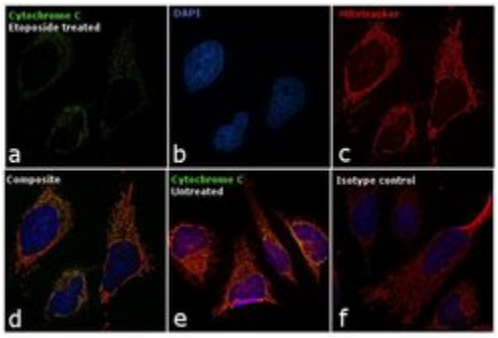


Cytochrome C Antibody (11-6601-82)
Figure 1 Demonstration of characteristic membrane and cytoplasmic features of apoptosis in developing embryos of S.digitata . Developing embryos harvested from adult S.digitata worms were analyzed with a flow cytometer [BD FACS Calibur] using Dot plots and Histogram plots. [A] Dot plots for embryonic stages showing 3 distinct clusters of populations: R-1 representing microfilariae while R-2 and R-3 representing eggs-early and late embryonic stages respectively. Apoptosis was studied with different assays either by gating respective populations in the Dot plots - for 3 different populations of embryonic stages, individually or without gating - for the embryonic stages all together. [B] Overlaid histograms show phosphatidyl serine exposure on microfilariae and eggs by Annexin-V-PE staining after treatment with 10 uM [Red] or 50 uM [Green] of Plumbagin in comparison to untreated controls [Blue] [C] Dot Plots revealing depolarization of mitochondria in embryonic stages and its reversal by NAC are shown using Mitoscreen JC-1 staining. The percentage of events in the upper gate [R5] and lower gate [R6] represent population of embryonic stages having normal and depolarized mitochondria respectively. [D] Confocal microscopic images of untreated embryos showing punctate staining and Plumbagin treated embryos showing diffusely cytoplasmic staining for Cytochrome-c respectively. [E] Overlaid histogram shows increased cytosolic presence of Cytochrome-c in developing embryos t Cell treatment validation info.

Product Images For Cytochrome C Monoclonal Antibody (6H2), FITC, eBioscience™



Cytochrome C Antibody (11-6601-82) in Flow
Intracellular staining of the HeLa cell line with anti-Cytochrome c FITC. Appropriate isotype controls were used (open histogram). Total cells were used for analysis.



Cytochrome C Antibody (11-6601-82) in ICC/IF
Immunofluorescence analysis of Cytochrome C was performed using log phase HeLa cells treated with 50 uM of Etoposide for 3 hrs. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Cytochrome C, FITC conjugated Monoclonal Antibody (Product # 11-6601-82) at 5µg/mL in 0.1% BSA and incubated overnight at 4 degree (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). Mitochondria was stained with MitoTracker® Red CMXRos (Product # M7512). Panel d represents the merged image showing cytoplasmic release of Cytochrome C from mitochondria on etoposide treatment. Panel e represents untreated cells showing mitochondrial localization. Panel f represents FITC Isotype control cells to assess background. The images were captured at 60X magnification.

View more figures on thermofisher.com

1 Reference

Immunohistochemistry (1)

PLoS neglected tropical diseases

Caspase dependent programmed cell death in developing embryos: a potential target for therapeutic intervention against pathogenic nematodes.

"Published figure using Cytochrome C monoclonal antibody (Product # 11-6601-82) in Immunofluorescence"

Authors: Mohapatra AD,Kumar S,Satapathy AK,Ravindran B

Species
Not Applicable

Dilution
Not Cited

Year
2011

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