

AbX™

DyLight® 488-Glutathione Mouse Monoclonal

Catalog Number A001F-50UG



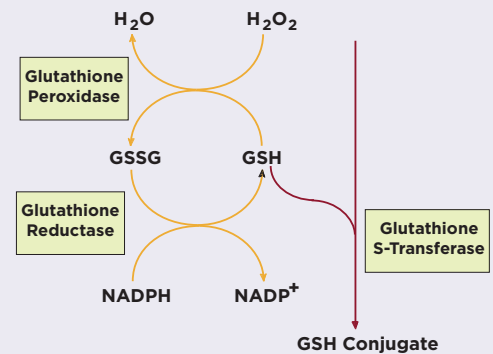
ARBOR
ASSAYS™

FEATURES

- Designed for Immunofluorescence and FACS Analysis
- Supplied as 50 µg in PBS
- For use under Non-Reducing conditions

INTRODUCTION

Glutathione (GSH) is the highest concentration non-protein thiol in mammalian cells and is present in concentrations of 0.5 to 10 mM. GSH plays a key role in many biological processes, including the synthesis of proteins and DNA, the transport of amino acids, and the protection of cells against oxidation. Harmful hydrogen peroxide cellular levels are minimized by the enzyme glutathione peroxidase (GP) using GSH as a reductant. The oxidized GSH dimer, GSSG, is formed from GSH and peroxide by the GP reaction. An important role of GSSG in the NFκB activating signal cascade is suggested by the fact that the potent NFκB inducer TPA increases intracellular GSSG levels and GSSG/GSH ratios.



The AbX™ DyLight® 488-labeled dye is similar to Alexa 488, Cy2 or FITC. It will measure GSH-protein complexes under non-reducing conditions.

CLONE NUMBER

L4H

IMMUNOGEN

Glutathione conjugated to Keyhole Limpet Hemocyanin

SUBTYPE

Mouse IgG_{2a}

LABEL

DyLight™ 488 labeled mouse monoclonal to glutathione, containing approximately 5.9 DyLight molecules per IgG

CONCENTRATION AND BUFFER COMPOSITION

500 µg/mL in Phosphate Buffered Saline at pH 7.2 containing 0.09% Sodium Azide

STORAGE

Short Term: 4°C. Extended: Aliquot and freeze at -20°C

SUGGESTED DILUTION

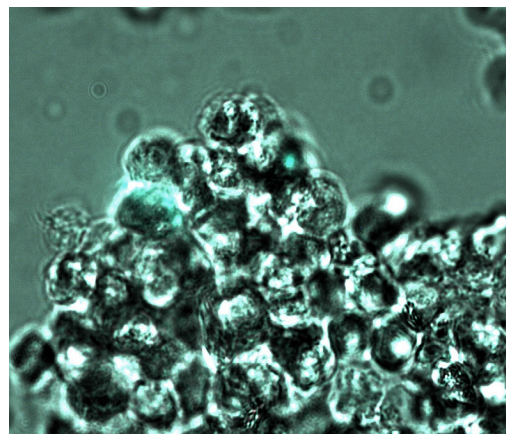
1:5-1:50

IMMUNOFLUORESCENCE

Jurkat cells, permeabilized and incubated with our DyLight® 488 labeled Glutathione monoclonal, A001F-100UL, clone L4H, at a 1:25 dilution.



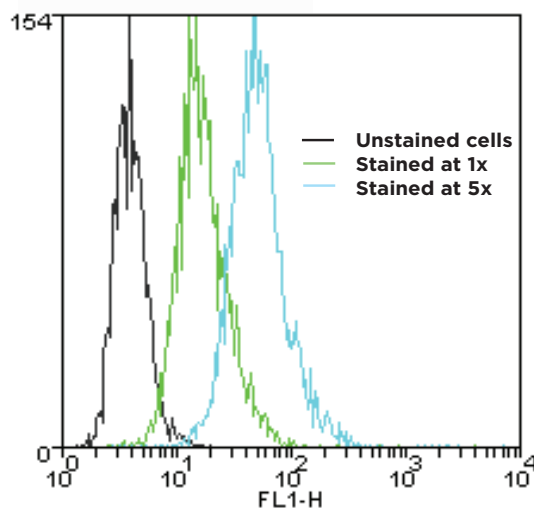
488 Filter



Unfiltered

FACS ANALYSIS

Flow analysis of Jurkat cells processed for immunofluorescence as above.



RELATED PRODUCTS

Kits

Catalase Colorimetric Activity Kit, K033-H1	Glutathione S-Transferase Fluorescent Activity Kit, K008-F1
Catalase Fluorescent Activity Kit, K033-F1	Hemoglobin Colorimetric Activity Kit, K013-H1
DNA Damage ELISA Kits, K059-H1/H5	Hemoglobin High Sensitivity Colorimetric Detection Kits, K013-HX1/HX5
Formaldehyde Fluorescent Detection Kit, K001-F1	Hydrogen Peroxide Colorimetric Detection Kit, K034-H1
FRAP Detection Kit, K043-H1	Hydrogen Peroxide Colorimetric Detection Kit, K034-H5
Glutathione Colorimetric Detection Kit, K006-H1	Nitric Oxide Colorimetric Detection Kit, K023-H1
Glutathione Fluorescent Detection Kits, K006-F1/F5	Superoxide Dismutase Colorimetric Activity Kit, K028-H1
Glutathione Reductase Fluorescent Activity Kit, K009-F1	Thiol Fluorescent Detection Kit, K005-F1

Reagents

AbX™ Monoclonal Glutathione Antibody, A001-50UG
AbX™ DyLight® 549 Glutathione Antibody, A001T-5UG

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