

## R-Phycoerythrin-anti-SAM 1

<b>Product name</b>	R-Phycoerythrin-anti-SAM 1
<b>Catalog Number</b>	MAF00202-50
<b>Description</b>	R-Phycoerythrin (R-PE) conjugated anti-S-adenosylmethionine monoclonal antibody clone 84-3
<b>Specificity</b>	MAF00202 shows the same specificity as un-conjugated mouse anti-SAM monoclonal antibody MA00202.

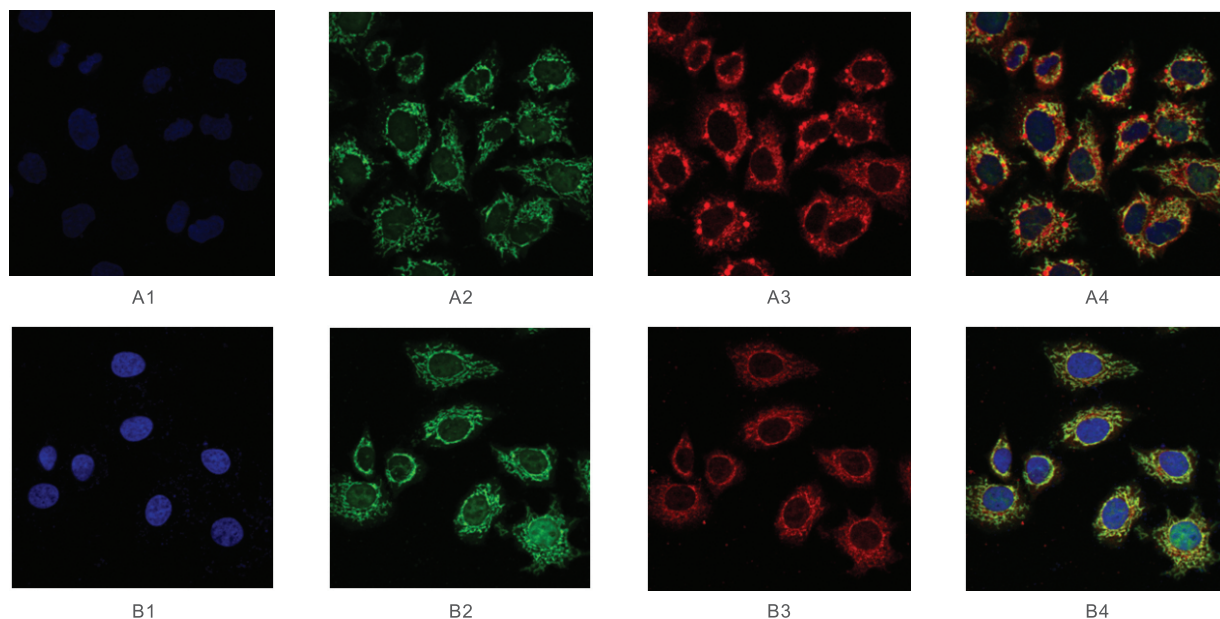
### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Store at 2-8°C in dark, do not freeze.
<b>Concentration</b>	2-4mg/ml or lot specific
<b>Storage buffer</b>	50mM Tris, 150mM NaCl, pH8.0, 0.2% BSA (Sigma), 0.09%NaN <sub>3</sub>
<b>Dilution buffer</b>	PBS, pH 7.4, 1% fetal bovine serum or 0.5% BSA, 0.09%NaN <sub>3</sub>
<b>Purity</b>	>95% purified with Sephadex G-25 and Sephacryl S-300, free from un-conjugated antibody and R-Phycoerythrin
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	84-3
<b>Immunoglobulin isotype</b>	mouse IgG2b
<b>Research Areas</b>	Methylation of biomolecules (DNA, RNA, proteins, hormones, neurotransmitters, etc.) One-carbon metabolism Signal Transduction Metabolism Pathways and Processes Cancer Arthritis Neurodegenerative diseases Atherosclerosis Liver diseases Kidney diseases

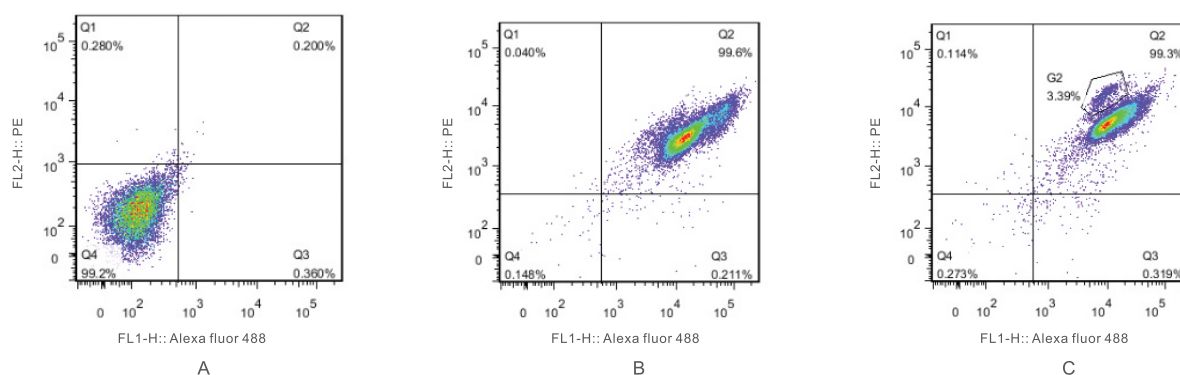
### Applications

The use of MAF00202 in the following applications has been tested. The application notes include recommended and tested dilutions. Optimal dilutions/concentrations should be determined by the end user based on the test environment and purposes.

Application	Recommended
Flow Cytometry (FCM)	30-90 µg/ml
Immunofluorescence Laser Scanning Confocal Microscopy (LSCM)	30-60 µg/ml



**Figure 1** Immunofluorescence (IF) LSCM results of normal liver cells L02 cultured in RPMI 1640 with 10% for 40h (A1-A4) double stained with AF488-anti-SAH 839-6 (Cat# MAF00302) at 40 $\mu$ g/ml and R-PE-anti-SAM 84-3 (Cat# MAF00202) at 40 $\mu$ g/ml followed by DAPI staining. Hepatocellular carcinoma cell line HepG2 cells were cultured for 40h (B1-B4) and double stained with AF488-anti-SAH 839-6 (Cat# MAF00302) at 60 $\mu$ g/ml and R-PE-anti-SAM 84-3 (Cat# MAF00202) at 60 $\mu$ g/ml followed by DAPI staining. Photography was performed under the laser scanning confocal microscope Zeiss LSM 780 (x630). Different views are as follows: DAPI (A1, B1); AF488 for SAH (A2, B2); R-PE for SAM (A3, B3); Overlap of all the three fluorescent signals (A4, B4). Expression patterns of SAM and SAH are different between L02 and HepG2 cells. In this case, both SAM and SAH are seen more in cytoplasm (more in mitochondria areas) than nuclear.



**Figure 2** Flow Cytometry of L02 (B) and HepG2 (C) cells double stained with Alexa Fluoro 488 conjugated anti-SAH antibody 839-6 (Cat# MAF00302) at 45  $\mu$ g/ml and R-PE conjugated anti-SAM antibody 84-3 (Cat# MAF00202) at 45  $\mu$ g/ml. 100% confluent cells (cultured in RPMI 1640 with 10% for 40h) were fixed and permeabilized with the nuclear fixation/permeabilization buffer (eBioscience 00-5523 FoxP3\_TF Staining Buffer Set) and then double stained with antibodies indicated above. Cells were used for analysis with BD FACSCanto II Flow Cytometer. Both SAM and SAH are expressed ubiquitously yet rather dynamically. A: blank.