
BrdU(Proliferation Marker) Mouse mAb

Catalog Number: bsm-0917M

Target Protein: BrdU(Proliferation Marker)

Concentration: 1mg/ml

Form: Size : 50ul/100ul/200ul

Liquid

Size : 200ug (PBS only)

Lyophilized

Note: Centrifuge tubes before opening. Reconstitute the lyophilized product in distilled water. Optimal concentration should be determined by the end user.

Host: Mouse

Clonality: Monoclonal

Clone No.: 1A7

Isotype: IgG

Applications: ICC/IF (1:100)

Reactivity: Species independent

Predicted MW: 0.3071 kDa

Purification: affinity purified by Protein G

Storage: Size : 50ul/100ul/200ul

0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Size : 200ug (PBS only)

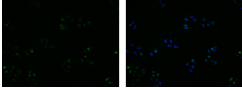
0.01M PBS

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The immunocytochemical detection of bromodeoxyuridine (BrdU) incorporated into DNA is a powerful tool to study the cytokinetics of normal and neoplastic cells. In vitro or in vivo labeling of tumor cells with the thymidine analogue BrdU and the subsequent detection of incorporated BrdU with specific anti-BrdU monoclonal antibodies is an accurate and comprehensive method to quantitate the degree of DNA-synthesis.

BrdU is incorporated into the newly synthesized DNA of S-phase cells may provide an estimate for the fraction of cells in S-phase. Also dynamic proliferative information such as the S-phase transit rate and the potential doubling time can be obtained, by means of bivariate BrdU/DNA flow cytometric analysis

VALIDATION IMAGES



4% Paraformaldehyde-fixed HeLa(treated with 10uM BrdU for 24 hours) (H) cells; 2M HCL at r.t. for 20 min; Antibody incubation with (BrdU) monoclonal Antibody, unconjugated (bsm-0917M) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Mouse IgG antibody (green, bs-0296G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei.

PRODUCT SPECIFIC PUBLICATIONS

[IF=8.025] Wei Hao. et al. Ginger polysaccharides relieve ulcerative colitis via maintaining intestinal barrier integrity and gut microbiota modulation. INT J BIOL MACROMOL. 2022 Oct;219:730 IF ; Mouse . 35963344

[IF=5.4] Zhao, Lan, et al. "Acupuncture Improves Cerebral Microenvironment in Mice with Alzheimer' s Disease Treated with Hippocampal Neural Stem Cells."Molecular Neurobiology (2016): 1-11. IHC,ICC ; ="Mouse" . 27558235

[IF=2.88] Li, Hongwei, et al. "Regular treadmill running improves spatial learning and memory performance in young mice through increased hippocampal neurogenesis and decreased stress." Brain Research (2013). Other ; ="Mouse" . 23916669

[IF=3.17] Liu, Yang, et al. "Amelioration of Stroke-Induced Neurological Deficiency by Lyophilized Powder of Catapol and Puerarin." International Journal of Biological Sciences 10.4 (2014): 448-456. IHC ; ="Mouse" . 24719562

[IF=2.959] Zhuang M et al. Reelin regulates male mouse reproductive capacity via the sertoli cells.(2018) J. Cell. Biochem. 2018 Oct 18 WB ; Mouse . 30335884