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BrdU (Bu20a) Mouse mAb (PE Conjugate)

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For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: | Reactivity: | Sensitivity: | Source/Isotype: |
|--|--|--------------|-------------------------|
| FC-FP | All | Endogenous | Mouse IgG1 |
| Product Usage Information | Application Flow Cytometry (Fixed/Permeabilized) | | Dilution 1:50 |
| Storage | Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze. | | |
| Specificity/Sensitivity | BrdU (Bu20a) Mouse mAb (PE Conjugate) detects BrdU when incorporated into single stranded DNA. DNA must be denatured for the epitope to be exposed and recognized by the antibody. | | |
| Source / Purification Description | Monoclonal antibody is produced by immunizing animals with BrdU conjugated to BSA. This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated BrdU (Bu20a) Mouse mAb #5292. | | |
| Background | Halogenated nucleotides such as the pyrimidine analog bromodeoxyuridine (BrdU) are useful for labeling nascent DNA in living cells and tissues. BrdU becomes incorporated into replicating DNA in place of thymidine and subsequent immunodetection of BrdU using specific monoclonal antibodies allows labeling of cells in S phase of the cell cycle. After pulse-labeling cells or tissues with bromodeoxyuridine, BrdU (Bu20a) Mouse mAb can be used to detect BrdU incorporated into single stranded DNA. Please see our detailed protocol for information regarding the labeling procedure and denaturation of double stranded DNA for various immunodetection applications (1-4). | | |
| Background References | <ol style="list-style-type: none"> 1. Darzynkiewicz, Z. and Juan, G. (2001) <i>Curr Protoc Cytom</i> Chapter 7, Unit 7.7. 2. Leif, R.C. et al. (2004) <i>Cytometry A</i> 58, 45-52. 3. Staszkievicz, J. et al. (2009) <i>Biochem Biophys Res Commun</i> 378, 539-44. 4. Rothausler, K. and Baumgarth, N. (2007) <i>Curr Protoc Cytom</i> Chapter 7, Unit 7.31. | | |

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| Species Reactivity | Species reactivity is determined by testing in at least one approved application (e.g., western blot). |
| Applications Key | FC-FP: Flow Cytometry (Fixed/Permeabilized) |
| Cross-Reactivity Key | All: All Species Expected |
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