BrdU (Bu20a) Mouse mAb

Background: Halogenated nucleotides such as the pyrimidine analog bromodeoxyuridine (BrdU) are useful for labeling nascent DNA in living cells and tissues (1,2). 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 (3,4).

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 as well as denaturation of double stranded DNA for various immunodetection applications.

Specificity/Sensitivity: BrdU (Bu20a) Mouse mAb 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: Monoclonal antibody is produced by immunizing animals with BrdU conjugated to BSA.

Background References:

Recommended Antibody Dilutions:
- Immunohistochemistry (Paraffin) 1:200
- Unmasking buffer: Citrate
- Antibody diluent: SignalStain® Antibody Diluent #8112
- Immunofluorescence (IF-IC) 1:1000
- IF Protocol: Special protocol required
- Flow Cytometry 1:200

For application specific protocols please see the webpage for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.