

#5292 Store at -20C

BrdU (Bu20a) Mouse mAb



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

Applications: IHC-P, IF-IC, FC-FP	Reactivity: All	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1
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Product Usage Information	Application Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	Dilution 1:200 1:1000 1:200
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
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	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	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.	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Applications Key	IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected	
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