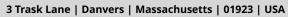
Store at -20C

92

## BrdU (Bu20a) Mouse mAb Image: Cell Signaling Technology Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com



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

Applications:Reactivity:IHC-P, IF-IC, FC-FPAll	<b>Sensitivity:</b> Endogenous	Source/Isotype: Mouse IgG1	
Product Usage Information	<b>Application</b> Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)		<b>Dilution</b> 1:200 1:400 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	<ol> <li>Darzynkiewicz, Z. and Juan, G. (2001) <i>Curr Protoc Cytom</i> Chapter 7, Unit 7.7.</li> <li>Leif, R.C. et al. (2004) <i>Cytometry A</i> 58, 45-52.</li> <li>Staszkiewicz, J. et al. (2009) <i>Biochem Biophys Res Commun</i> 378, 539-44.</li> <li>Rothaeusler, K. and Baumgarth, N. (2007) <i>Curr Protoc Cytom</i> Chapter 7, Unit7.31.</li> </ol>		
Species Reactivity	Species reactivity is dete	ermined by testing in at least one approved applic	ation (e.g., western blot).
Applications Key	<b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)		
Cross-Reactivity Key	All: All Species Expected		
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.		
	All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.		
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.		
	Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any		

commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.