

Mouse Bromodeoxyuridine / BrdU Monoclonal Antibody

Mouse anti Bromodeoxyuridine / BrdU

CATALOG #	HOST	APPLICATIONS
AAA77478	Mouse	Immunohistochemistry, Immunohistochemistry, Immunocytochemistry, Flow Cytometry, Functional Assay

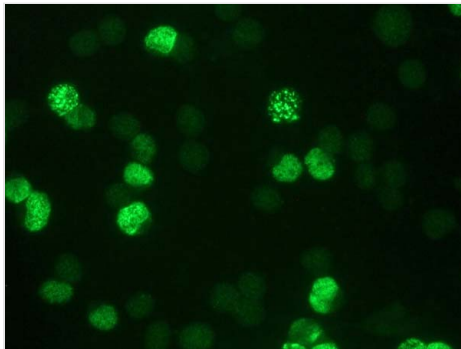
PRODUCT SYNONYMS

Bromodeoxyuridine / BrdU; Monoclonal Antibody; Mouse anti Bromodeoxyuridine / BrdU; anti-Bromodeoxyuridine / BrdU antibody

PRODUCT SPECIFICATIONS

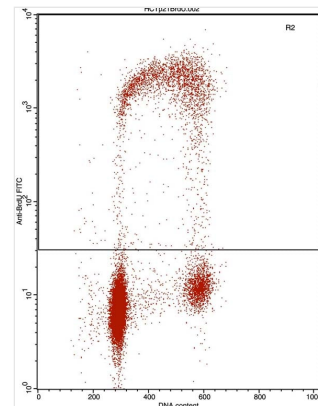
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	IIB5
Form/Format	Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.
Applicable Applications for anti-Bromodeoxyuridine / BrdU antibody	IHC (Immunohistochemistry), IHC (Immunohistochemistry), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)
Source Note	IIB5 is a Mouse monoclonal IgG1 antibody derived by fusion of SP2/0-Ag14 Mouse myeloma cells with spleen cells from a BALB/c Mouse intraperitoneally immunized with BrdU conjugated to Bovine Serum albumin.
Preparation and Storage	Store at 4 degree C, or in small aliquots at -20 degree C.

IMAGES



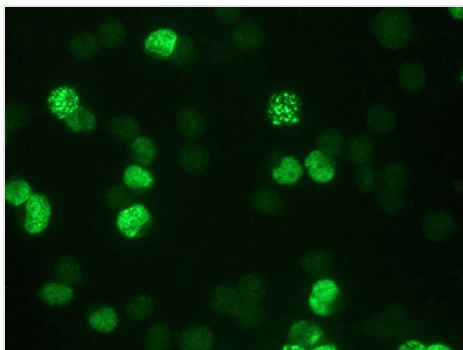
IF (Immunofluorescence)

Figure 2: Indirect immunofluorescence staining of BrdU-labeled MR65 lung cancer cells



FCM/FACS (Flow Cytometry)

Figure 1b: Flow cytometric analysis of the BrdU-labeled fraction in a tissue cell culture.



FCM/FACS (Flow Cytometry)

Figure 1a: Flow cytometric analysis of the BrdU-labeled fraction in a tissue cell culture.

ADDITIONAL INFORMATION

Related Product Information for anti-Bromodeoxyuridine / BrdU antibody	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 the S-phase cells and can thus 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.
Product Categories/Family for anti-Bromodeoxyuridine / BrdU antibody	Cell cycle markers; Cancer; Cell cycle; Immunology; Neurobiology; Stem cell research
References	Schutte, B., Reynders, M. M., van Assche, C. L., Hupperets, P. S., Bosman, F. T., and Blijham, G. H. (1987). An improved method for the immunocytochemical detection of bromodeoxyuridine labeled nuclei using flow cytometry, Cytometry 8, 372-6. Tinnemans, M. M., Schutte, B., Lenders, M. H., Ten Velde, G. P., Ramaekers, F. C., and Blijham, G. H. (1993). Cytokinetic analysis of lung cancer by in vivo bromodeoxyuridine labelling, Br J Cancer 67, 1217-22. Schutte, B., Tinnemans M.M.F.J., Pijpers, G.F.P., Lenders, M.J.H. and Ramaekers, F. (1995). Three parameter flow cytometric analysis for simultaneous detection of cytokeratin, proliferation associated antigens and DNA content. Cytometry 21, 177-86. van Engeland, M., Kuijpers, H. J., Ramaekers, F. C., Reutelingsperger, C. P., and Schutte, B. (1997). Plasma membrane alterations and cytoskeletal changes in apoptosis. Exp Cell Res 235, 421-430. Schutte, B., Nieland, L., van Engeland, M., Henfling, M. E., Meijer, L., and Ramaekers, F. C. (1997). The effect of the cyclin-dependent kinase inhibitor olomoucine on cell cycle kinetics. Exp Cell Res 236, 4-15.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/bromodeoxyuridine-brdu-antibody-clone-iib5-immunohistochemistry-immunohistochemistry-immunocytochemistry-flow-cytometry-elisa/77478>