

Product datasheet

Anti-BrdU antibody [IIB5] ab8955

★★★★☆ [3 Abreviews](#) [27 References](#) [5 Images](#)

Overview

Product name	Anti-BrdU antibody [IIB5]
Description	Mouse monoclonal [IIB5] to BrdU
Host species	Mouse
Specificity	This antibody also reacts with bromodeoxyuridine when incorporated into nuclear DNA. It cross reacts with iododeoxyuridine (IdU).
Tested applications	Suitable for: ICC/IF, Flow Cyt, IHC-Fr, IHC-P
Species reactivity	Reacts with: Species independent
Immunogen	Chemical/ Small Molecule corresponding to BrdU conjugated to bovine serum albumin.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	IIB5
Myeloma	Sp2/0-Ag14
Isotype	IgG1

Applications

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab8955 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration. Using immunocytochemistry, a combination of this antibody and Mouse monoclonal to Mitotic Cells (ab8956) can distinguish and quantitate the four major fractions of the cell cycle.
Flow Cyt		Use at an assay dependent concentration. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IHC-Fr		1/100 - 1/200. ABC method.
IHC-P	★★★★★ (1)	1/100 - 1/200. ABC method.

Target

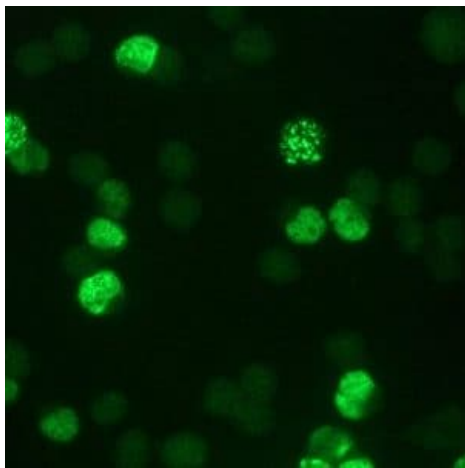
Relevance

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 S-phase cells may 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.

Cellular localization

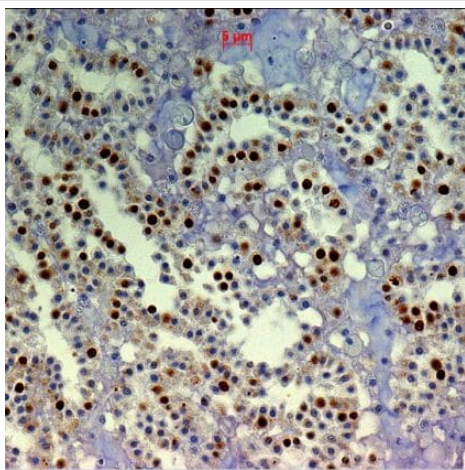
Nuclear

Images



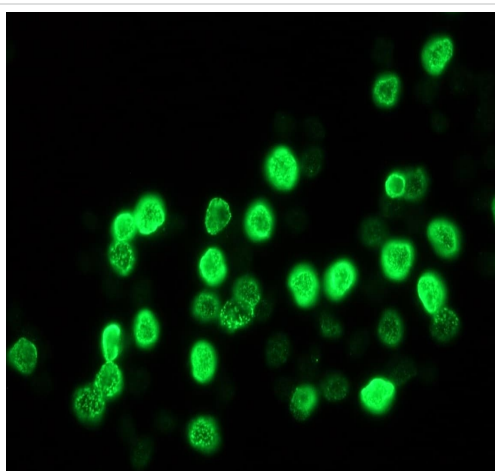
Immunocytochemistry/ Immunofluorescence - Anti-BrdU antibody [IIB5] (ab8955)

Indirect immunofluorescence staining of BrdU-labeled MR65 lung cancer cells with ab8955.



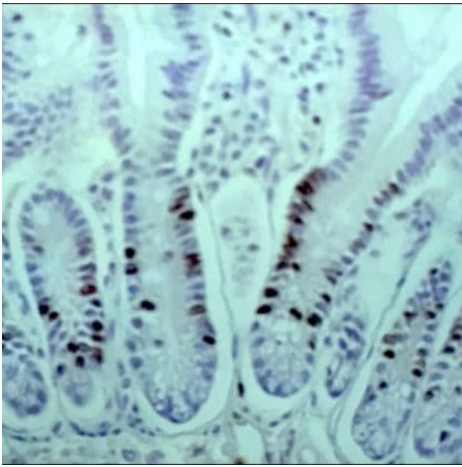
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BrdU antibody [IIB5] (ab8955)

BrdU staining in sponge *Halisarca caerulea* using ab8955. Metacrylate embedded tissue sections were incubated with 1:200 diluted primary antibody. An avidin-biotin complex kit using biotinylated rabbit anti-mouse antibody and then incubation in avidin-biotin-peroxidase complex was used for detection.



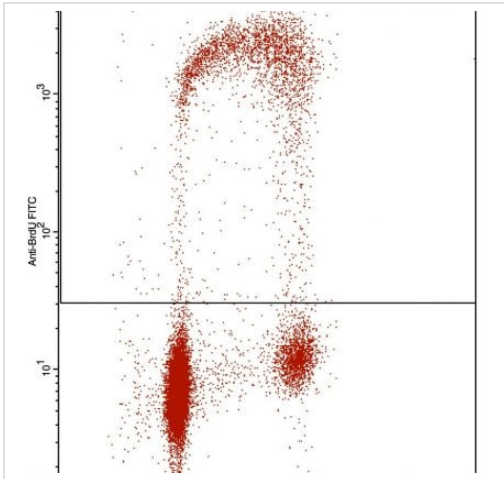
Immunocytochemistry/ Immunofluorescence - Anti-BrdU antibody [IIB5] (ab8955)

Indirect immunofluorescence staining of BrdU-labeled MR65 lung cancer cells using ab8955 (1:1000).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BrdU antibody [IIB5] (ab8955)

BrdU staining in paraffin embedded rat intestine using ab8955. Primary antibody diluted 1:200. Peroxidase-conjugated goat anti mouse secondary antibody was used for detection.



Flow Cytometry - Anti-BrdU antibody [IIB5] (ab8955)

Flow cytometric BrdU-DNA cell cycle analysis in a lung cancer cell line. Dilution 1:100 of primary antibody ab8955. FITC-conjugated goat anti mouse secondary antibody was used for detection.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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