Product datasheet

Anti-BrdU antibody [IIB5] ab8955

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
Immunogen: Chemical/ Small Molecule conjugated to BSA.

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

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.

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<td>ICC/IF</td>
<td></td>
<td>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.</td>
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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 and 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.

**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 and 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**

![Indirect immunofluorescence staining of BrdU-labeled MR65 lung cancer cells with ab8955.](image)

**Notes**

- **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**: 1/100 - 1/200. ABC method.
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.

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 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.

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