abcam

Product datasheet

Anti-BrdU antibody [MoBu-1] ab8039

28 References 4 图像

概述

产**品名称** Anti-BrdU抗体[MoBu-1]

描述 小鼠单克隆抗体[MoBu-1] to BrdU

宿主 Mouse

特异性 This antibody reacts specifically with BrdU incorporated into DNA during S-phase of a cell cycle. It

is useful for detecting proliferating cells by flow cytometry or immunofluorescence staining. The reaction shows a clear, nuclear confined speckled pattern. It reacts also specifically with 5-

bromouridine (BrU).

经测试应用 适用于: IHC-P, ICC/IF, Flow Cyt (Intra)

种属反应性 与反应: Species independent

免疫原 Chemical/ Small Molecule corresponding to BrdU.

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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.

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

性能

常规说明

形式 Liquid

存放说明 Shipped at 4°C. Store at +4°C. Do Not Freeze.

存储溶液 pH: 7.40

Preservative: 0.097% Sodium azide

Constituent: PBS

纯**度** Protein A purified

纯**化**说明 >95 % (by PAGE).

 克隆
 单克隆

 克隆编号
 MoBu-1

同种型 lgG1

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The Abpromise guarantee

Abpromise™承诺保证使用ab8039于以下的经测试应用

"应用说明"部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		Use at an assay dependent concentration.
ICC/IF		Use a concentration of 2 µg/ml.
Flow Cyt (Intra)		Use a concentration of 1 - 2 μg/ml. <u>ab170190</u> - Mouse monoclonal lgG1, is suitable for use as an isotype control with this antibody.

靶标

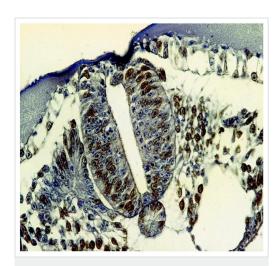
相关性

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 synthezised 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.

细胞定位

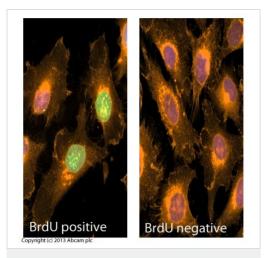
Nuclear

图片



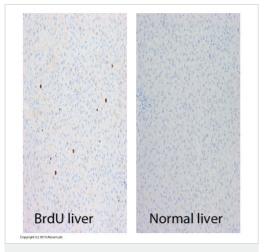
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-BrdU antibody [MoBu-1] (ab8039)

Immunohistochemical analysis of parafinembedded bromodeoxyuridine-labelled chick embryo cells with (MoBu-1) 5-bromodeoxyuridine



Immunocytochemistry/ Immunofluorescence - Anti-BrdU antibody [MoBu-1] (ab8039)

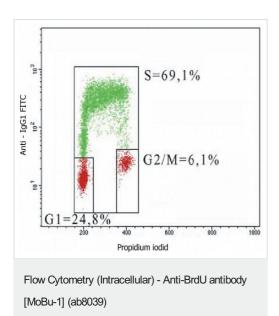
ICC/IF image of ab8039 stained HeLa cells, both BrdU treated (left image) and normal cells (right image). The cells were 100% methanol fixed (5 min) and then subjected to acid hydrolysis using 2M HCL in 0.1% PBS-Tween for 30 minutes at room temperature to denature the DNA. They were then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab8039, 10μg/ml) overnight at +4°C. The secondary antibody (green) was ab96879, DyLight® 488 goat anti-mouse lgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43μM. Positive staining can be seen in the BrdU treated cells, but not in the normal cells, demonstrating specificity for BrdU.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-BrdU antibody [MoBu-1] (ab8039)

IHC image of ab8039 staining, both in normal and BrdU treated rat liver formalin fixed paraffin embedded tissue sections, performed on a Leica Bond

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Intracellular Flow Cytometry analysis of CEM (human acute lymphoblastic leukemia) cells labelling BrdU with ab8039 at $1\mu g/mL$. Goat anti-mouse lgG was used as the secondary antibody.The individual cell cycle phases (S, G1, G2/M-phase) are indicated on the figure.

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