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Datasheet for ABIN93883

## anti-BrdU antibody

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### Overview

|              |   |
|--------------|---|
| Quantity:    | 0.1 mg  |
| Target:      | BrdU  |
| Reactivity:  | Please inquire  |
| Host:        | Mouse   |
| Clonality:   | Monoclonal  |
| Conjugate:   | This BrdU antibody is un-conjugated   |
| Application: | Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC) |

### Product Details

|               |  |
|---------------|--|
| Immunogen:    | 5-bromodeoxyuridine conjugated with hemocyanine.   |
| Clone:        | MoBu-1   |
| Isotype:      | IgG1   |
| Specificity:  | The antibody MoBu-1 reacts specifically with BrdU incorporated into DNA during S-phase of a cell cycle. It reacts also specifically with 5-bromouridine (BrU), and it does not cross-react with EdU. |
| Purification: | Purified by protein-A affinity chromatography.   |
| Purity:       | > 95 % (by SDS-PAGE)   |

### Target Details

|         |      |
|---------|------|
| Target: | BrdU |
|---------|------|

## Target Details

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Alternative Name: 5-bromodeoxyuridine (BrdU) ([BrdU Products](#))

Target Type: Chemical

Background: Bromodeoxyuridine (BrdU) is a thymidine analog, which is selectively incorporated into the DNA of proliferating cells to provide a marker for the DNA being replicated. The number of proliferating cells can then be detected in cell lysates, tissue sections or suspensions using an antibody specific for the BrdU.,5-bromodeoxyuridine

## Application Details

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Application Notes: Flow cytometry: Recommended dilution: 1-2 µg/mL. Intracellular staining.  
Immunocytochemistry: Recommended dilution: 2 µg/mL.  
Immunohistochemistry (paraffin sections): Excellent.

Restrictions: For Research Use only

## Handling

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Concentration: 1 mg/mL

Buffer: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: **Do not freeze.**

Storage: 4 °C

Storage Comment: Store at 2-8°C. Do not freeze.

## Publications

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Product cited in: Sati, Bonev, Szabo, Jost, Bensadoun, Serra, Loubiere, Papadopoulos, Rivera-Mulia, Fritsch, Bouret, Castillo, Gelpi, Orozco, Vaillant, Pellestor, Bantignies, Marti-Renom, Gilbert, Lemaitre, Cavalli: "4D Genome Rewiring during Oncogene-Induced and Replicative Senescence." in: **Molecular cell**, Vol. 78, Issue 3, pp. 522-538.e9, (2020) ([PubMed](#)).

Schoonen, Kok, Wierenga, Bakker, Foijer, Spierings, van Vugt: "Premature mitotic entry induced by ATR inhibition potentiates olaparib inhibition-mediated genomic instability, inflammatory

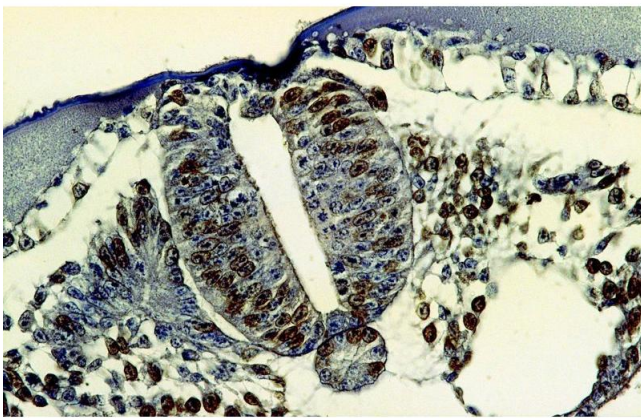
signaling, and cytotoxicity in BRCA2-deficient cancer cells." in: **Molecular oncology**, Vol. 13, Issue 11, pp. 2422-2440, (2020) ([PubMed](#)).

Babic, Ondrejčaková, Bakos, Racekova, Jezova: "Cell proliferation in the hippocampus and in the heart is modified by exposure to repeated stress and treatment with memantine." in: **Journal of psychiatric research**, Vol. 46, Issue 4, pp. 526-32, (2012) ([PubMed](#)).

Stanek, Kiss, Raska: "Pre-ribosomal RNA is processed in permeabilised cells at the site of transcription." in: **European journal of cell biology**, Vol. 79, Issue 3, pp. 202-7, (2000) ([PubMed](#)).

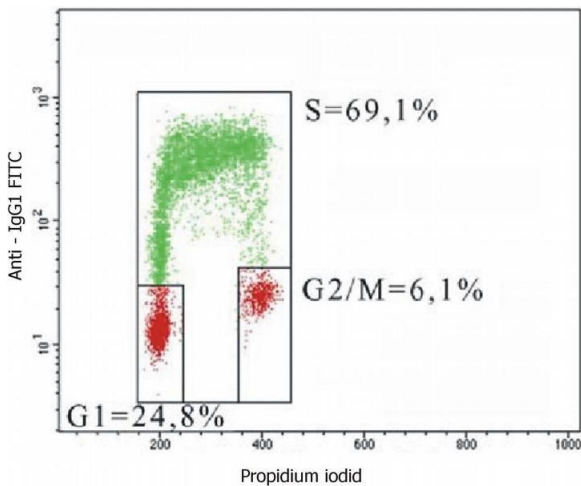
Buckiová, Kubínová, Soukup, Jelínek, Brown: "Hyperthermia in the chick embryo: HSP and possible mechanisms of developmental defects." in: **The International journal of developmental biology**, Vol. 42, Issue 5, pp. 737-40, (1998) ([PubMed](#)).

Images



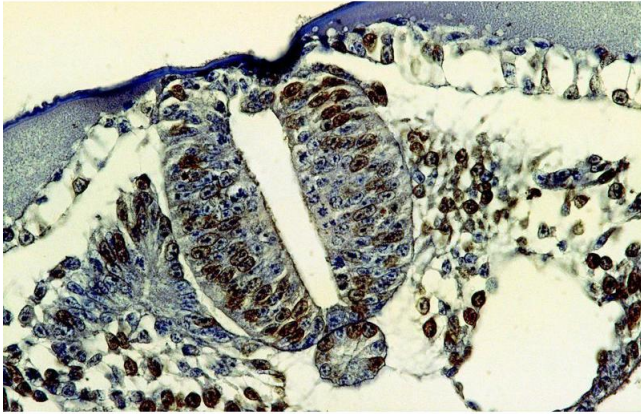
Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Immunohistochemistry staining of bromodeoxyuridine-labeled cells (chick embryo, paraffin-embedded sections) with anti-5-bromodeoxyuridine (MoBu-1).



Flow Cytometry

**Image 2.** Flow cytometry analysis of 5-bromodeoxyuridin (BrdU) incorporation in CEM human acute lymphoblastic leukemia cell line using purified anti-5-bromodeoxyuridin (MoBu-1) (detection by Goat anti-mouse IgG1 FITC). The individual cell cycle phases (S-, G1-, G2/M-phase) are indicated in the figure.



### Immunohistochemistry

**Image 3.** Immunohistochemistry of paraffin-embedded sections (chick embryo) Immunohistochemistry staining of bromodeoxyuridine-labeled cells (chick embryo; paraffin-embedded sections) with anti-5-bromodeoxyuridine