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Datasheet for ABIN1607682

## anti-BrdU antibody

4 Images

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### Overview

Quantity:	100 µg
Target:	BrdU
Reactivity:	Please inquire
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This BrdU antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Flow Cytometry (FACS), Western Blotting (WB), ELISA, Fluorescence Microscopy (FM)

### Product Details

Immunogen:	Anti-BrdU monoclonal antibody was produced in mice by repeated immunizations prepared via immunizations with BromodeoxyUridine-KLH followed by hybridoma development. Immunogen Type: Other
Clone:	29G6-E8
Cross-Reactivity (Details):	Cross reactivity is observed with CldU and IdU.
Purity:	Anti-BrdU Monoclonal Antibody was purified from ascites fluid by Protein A chromatography. This antibody reacts strongly with BrdU.
Endotoxin Level:	Low Endotoxin : No

### Target Details

Target:	BrdU
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## Target Details

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Alternative Name: BrdU ([BrdU Products](#))

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Target Type: Chemical

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Background: Bromodeoxyuridine (5-bromo-2'-deoxyuridine, BrdU) is a synthetic thymidine nucleoside analog. BrdU is commonly used to allow the detection of growing or proliferating cells in living tissues. During the S-phase of cell division, DNA replication occurs, and BrdU can be incorporated into the newly synthesized DNA by substituting for naturally occurring thymidine. Antibodies specific for BrdU are subsequently used to detect the incorporated BrdU thymidine analog. This highlights cells that were actively replicating their DNA and is suggestive of actively growing cells. Antibody binding usually requires the DNA to be denatured, typically by exposing the cells to acid or heat. Synonyms: Bromodeoxyuridine, 5-bromo-2'-deoxyuridine, BrdU

## Application Details

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Application Notes: Anti-BrdU Antibody has been tested as suitable for immunoblot assays. Antibody may be suitable for additional immunoassays including immunofluorescence, flow cytometry and immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Antibody will detect incorporated BrdU thymidine analog from replicated cells.  
ELISA Dilution: 1:2000 - 1:10000  
Western Blot Dilution: 1:2000 - 1:5000

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 1 mg/mL

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Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

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Storage: 4 °C/-20 °C

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Storage Comment: Store BrdU Antibody at -20 °C prior to opening. Aliquot contents and freeze at -20 °C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use.

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Expiry Date: Expiration date is one (1) year from date of opening.

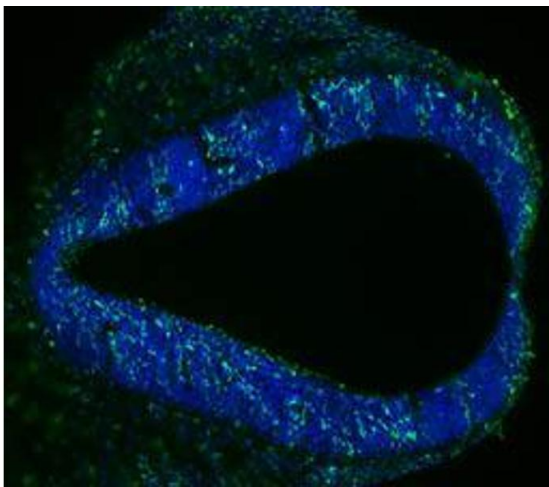
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### Product cited in:

Silva, Peyre, Adhikari, Tielens, Tanco, Van Damme, Magno, Krusy, Agirman, Magiera, Kessar, Malgrange, Andrieux, Janke, Nguyen: "Cell-Intrinsic Control of Interneuron Migration Drives Cortical Morphogenesis." in: **Cell**, Vol. 172, Issue 5, pp. 1063-1078.e19, (2019) ([PubMed](#)).

Wang, Shen, Cheng, Deng, Engelhardt, Yan, Qiu: "Parvovirus Expresses a Small Noncoding RNA That Plays an Essential Role in Virus Replication." in: **Journal of virology**, Vol. 91, Issue 8, (2017) ([PubMed](#)).

## Images



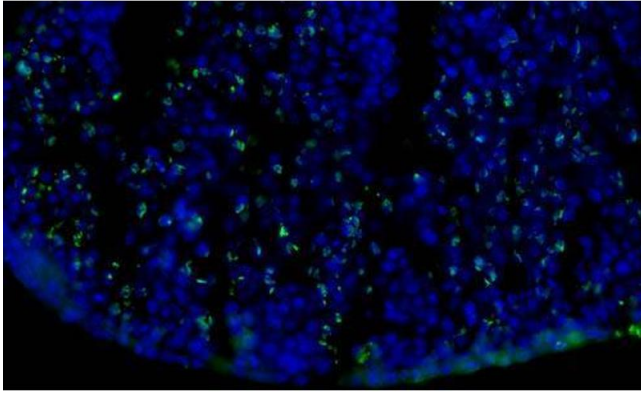
### Immunofluorescence

**Image 1.** Immunofluorescence Microscopy of Mouse Anti-BrdU antibody. Tissue: OCT-embedded E10.5 mouse embryo. Localization: 20X, section through the developing hindbrain. Fixation: 4% PFA. Antigen retrieval: not required. Primary antibody: BrdU antibody at 1:1000 for overnight at 4°C in 0.4% PBS+Triton with 1% normal sheep serum. Secondary antibody: Alexa Fluor 488 Anti-Mouse secondary antibody at 1:200 for 45 min at RT. Staining: Double labeled (green/blue) cells represent cells that were actively dividing.



### Western Blotting

**Image 2.** Western blot of Anti-BrdU antibody. Lane 1: loading control. Lane 2: FdU. Lane 3: BrdU. Lane 4: IdU. Lane 5 CldU. Load: 20 µg per lane. Primary antibody: Anti-BrdU antibody at 1:1000 for overnight at 4°C. Secondary antibody: mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted: BrdU. Other band(s): cross reactive bands observed for other nucleoside analogs, IdU and CldU.



### Immunofluorescence

**Image 3.** Immunofluorescence Microscopy of Mouse Anti-BrdU antibody. Tissue: OCT-embedded E10.5 mouse embryo. Localization: 40X, section through the developing limb bud. Fixation: 4% PFA. Antigen retrieval: not required. Primary antibody: BrdU antibody at 1:500 in 0.4% PBS+Triton with 1% normal sheep serum overnight at 4°C. Secondary antibody: Alexa Fluor 488 Anti-Mouse secondary antibody at 1:200 for 45 min at RT. Staining: Double labeled (green/blue) cells represent cells that were actively dividing.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1607682.