

Product datasheet

Anti-BrdU antibody - Proliferation Marker ab1893

★★★★☆ [16 Abreviews](#) [170 References](#) [2 Images](#)

Overview

Product name	Anti-BrdU antibody - Proliferation Marker
Description	Sheep polyclonal to BrdU - Proliferation Marker
Host species	Sheep
Tested applications	Suitable for: IHC-FrFI, IHC-P, IHC-Fr, ELISA
Species reactivity	Reacts with: Species independent
Immunogen	Chemical/ Small Molecule corresponding to BrdU. Coupled to HGG (Human Gamma Globulin).
General notes	<p>Unstained positive control slides from mice treated with BrdU (formalin-fixed, paraffin-embedded intestine sections) are available as BrdU control slides ab129956.</p> <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. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.60 Constituent: 0.4% PBS
Purity	Protein G purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab1893 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
IHC-FrFI	★★★★★ (1)	Use at an assay dependent concentration.
IHC-P	★★★★★★ (8)	Use a concentration of 10 µg/ml.
IHC-Fr	★★★★★ (2)	Use a concentration of 10 µg/ml.
ELISA		Use at an assay dependent concentration.

Target

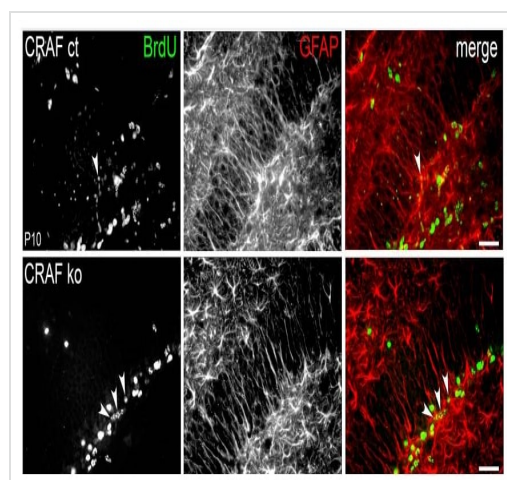
Relevance

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

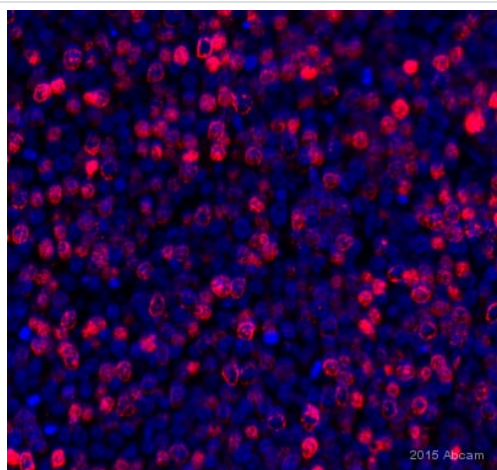


Increased numbers of BrdU-labeled NPCs (neural progenitor cells) with radial GFAP-positive processes in the DG GCL of CRAF ko at P10.

(Panel A shown) Immunohistological analysis of BrdU (green) and the astrocytic marker GFAP (red) stained sagittal brain sections of CRAF ct and CRAF ko hippocampus at P10 24h after a single BrdU application. Representative brain sections of CRAF ct (upper panel) and CRAF ko (lower panel) show BrdU-labeled cells (green) colocalizing with GFAP-positive radial processes (red) (merge, white arrowheads). Scale bar = 50µm.

Immunohistochemistry (Frozen sections) - Anti-BrdU antibody - Proliferation Marker (ab1893)

Pfeiffer et al PLoS One. 2018 Mar 28;13(3):e0192067. doi: 10.1371/journal.pone.0192067. eCollection 2018. Fig 4. Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BrdU antibody - Proliferation Marker (ab1893)

This image is courtesy of an anonymous Abreview

ab1893 staining BrdU in Ramos (Human Burkitt's lymphoma cell line) cell line xenograft tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections).

Tissue was fixed with formaldehyde and blocked with 15% serum for 1 hour at 20°C; antigen retrieval was by heat mediation in a sodium citrate buffer, pH 6. Samples were incubated with primary antibody (1/260 in TBS) for 18 hours at 20°C. An undiluted Alexa Fluor® 488-conjugated donkey anti-sheep IgG polyclonal was used as the secondary antibody.

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