abcam

Product datasheet

Biotin Anti-BrdU antibody ab2284

★★★★★ 6 Abreviews 47 References 4 Images

Overview

Product name	Biotin Anti-BrdU antibody
Description	Biotin Sheep polyclonal to BrdU
Host species	Sheep
Conjugation	Biotin
Tested applications	**Suitable for:** IHC-P, IHC-Fr, ICC/IF, ELISA, IHC-FoFr
Species reactivity	**Reacts with:** Species independent
Immunogen	Chemical/ Small Molecule corresponding to BrdU conjugated to keyhole limpet haemocyanin.
General notes	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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.50 Constituent: 0.4% PBS
Purity	Protein G purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab2284 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-P	★★★★★ (3)	Use at an assay dependent concentration.
IHC-Fr	★★★★★ (1)	Use at an assay dependent concentration. Fixation in cold methanol for 30 minutes followed by immersion in 7 x 10^{-3} N NaOH for 10-15 seconds allows BrdU staining with the simultaneous detection of nuclear cytoplasmic and membrane assigns as well as preservation of morphological detail.
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration. dilute from 1/500 to 1/40,000 against 1mg/mL BrdU analyte.
IHC-FoFr	★★★★★ (1)	1/2000. 1/2000 (see Abreview).

Target

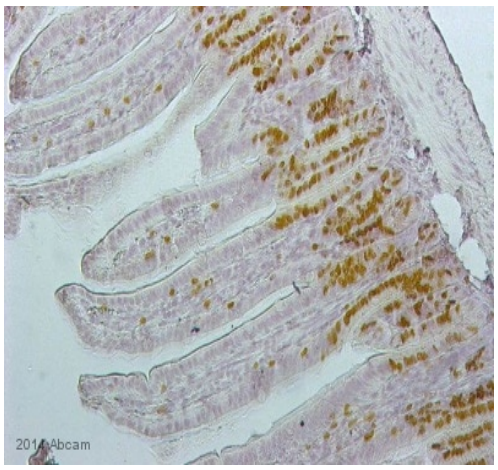
Relevance

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

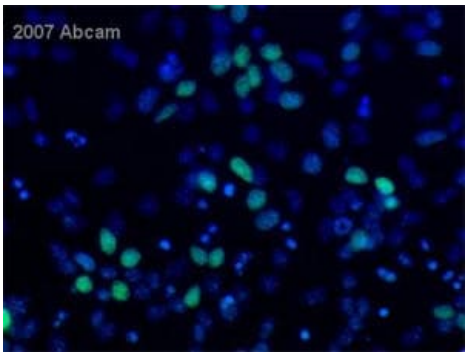
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Biotin Anti-BrdU antibody (ab2284)

This image is courtesy of an anonymous Abreview

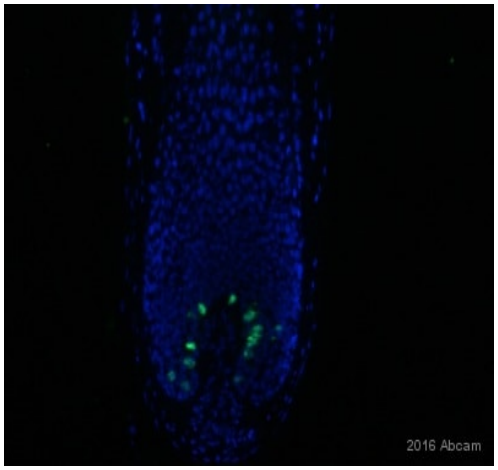
ab2284 staining BrdU in mouse intestine tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 1% H_2O_2 in methanol for 12 minutes; antigen retrieval was by heat mediation in 10mM citrate, pH6. Samples were incubated with primary antibody (1/100) for 24 hours at 4°C.



Immunocytochemistry/ Immunofluorescence - Biotin Anti-BrdU antibody (ab2284)

This image is courtesy of an anonymous Abreview

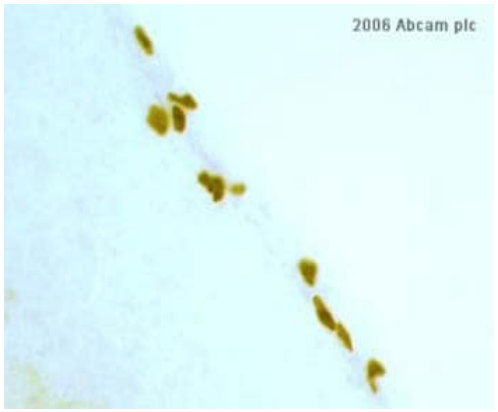
ab2284 at 1/250 staining primary E12 mouse cortex cells by ICC/IF. The cells were paraformaldehyde fixed, blocked with serum and then incubated with the antibody for 24 hours. Streptavidin conjugated to Alexa-Fluor ® 488 was used as the secondary. The image shows BrdU staining with nuclei counterstained with DAPI.



Immunohistochemistry (Frozen sections) - Biotin Anti-BrdU antibody (ab2284)

This image is courtesy of an Abreview submitted by Ahmar Aziz

ab2284 staining BrdU in Mouse skin tissue sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with acetone and blocked with 10% serum for 30 minutes. Samples were incubated with primary antibody (1/50 in PBS) for 12 hours at 4°C. A Streptavidin Alexa Fluor® 488-conjugated Goat polyclonal (1/500) was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Biotin Anti-BrdU antibody (ab2284)

This image is courtesy of an Abreview submitted by Dr Christoph Schwarzer

ab2284 at 1/2000 dilution staining mouse free floating brain slices by Immunohistochemistry (Formalin/PFA fixed sections). The mice were treated with 100mg/kg BrdU 2 hours before fixation. Free floating 40µm vibratome sections were obtained from paraformaldehyde fixed brains, these were incubated with the antibody for 24 hours. A streptavidin-HRP complex and DAB were used for detection. The image depicts the subventricular zone.

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