

Product datasheet

Anti-BrdU antibody (Biotin) ab2284

★★★★★ 6 Abreviews 32 References 4 Images

Overview

Product name	Anti-BrdU antibody (Biotin)
Description	Sheep polyclonal to BrdU (Biotin)
Host species	Sheep
Conjugation	Biotin
Specificity	The antibody was tested using immunoprecipitation against 5-Methyl Cytosine (5-MeC) and bromo-deoxyuridine (BrdU) or control (no antigen) and assayed by A-405 spectrophotometry. At a concentration of 25 µg/mL, this product demonstrates 8 fold higher reactivity against BrdU than 5-MeC. This product titers out at 50 ng/mL. For best results, use the product at a concentration of 25 to 100 µg/mL. Nearly complete immunoprecipitation was obtained at a concentration of 100 to 500 µg/mL.
Tested applications	Suitable for: IHC-P, IHC-Fr, IP, ICC/IF, ELISA, IHC-FoFr
Species reactivity	Reacts with: Species independent
Immunogen	Bromodeoxyuridine coupled to keyhole limpet hemocyanin (KLH)

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

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	★★★★★	Use at an assay dependent dilution.
IHC-Fr	★★★★★	Use at an assay dependent dilution. Fixation in cold methanol for 30 minutes followed by immersion in 7×10^{-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.
IP		Use at an assay dependent dilution.
ICC/IF	★★★★★	Use at an assay dependent dilution.
ELISA		Use at an assay dependent dilution. dilute from 1/500 to 1/40,000 against 1mg/mL BrdU analyte.
IHC-FoFr	★★★★★	1/2000. 1/2000 (see Abreview).

Target

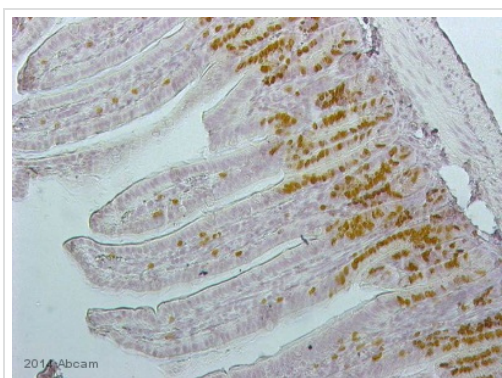
Relevance

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

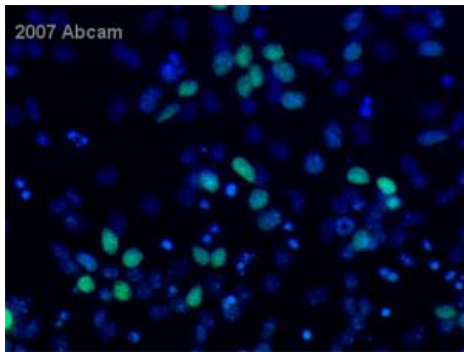
Images



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% H₂O₂ 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.

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

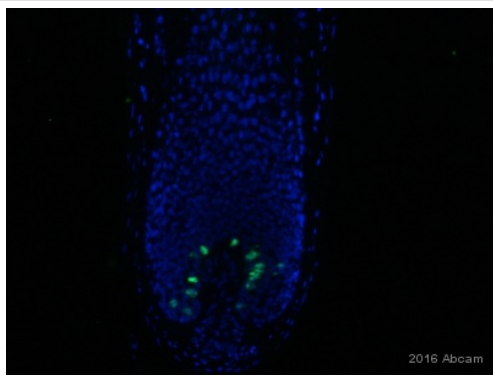
This image is courtesy of an anonymous Abreview



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