abcam

Product datasheet

Anti-BrdU antibody - Proliferation Marker ab1893

11 Abreviews 76 References 2 Images

Overview

Product name	Anti-BrdU antibody - Proliferation Marker
Description	Sheep polyclonal to BrdU - Proliferation Marker
Tested applications	**Suitable for:** IHC-FrFl, IHC-P, IHC-Fr, ICC/IF, ELISA, WB, IHC-FoFr
Immunogen	Other Immunogen Type corresponding to BrdU. Bromodeoxyuridine coupled to HGG (Human Gamma Globulin)

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: 7.6 Constituent: 0.4% PBS
Purity	Protein G purified
Clonality	Polyclonal
Isotype	IgG

Applications

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-FrFl	★★★★☆	Use at an assay dependent concentration.
IHC-P	★★★★★	Use a concentration of 10 µg/ml.
IHC-Fr	★★★★☆	Use a concentration of 10 µg/ml.
ICC/IF	★★★★☆	Use at an assay dependent concentration. PubMed: 21118958

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration.
IHC-FoFr		Use at an assay dependent concentration. PubMed: 19332057

Target

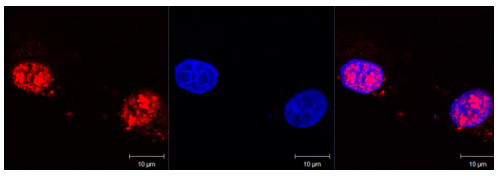
Relevance

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 synthezised 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

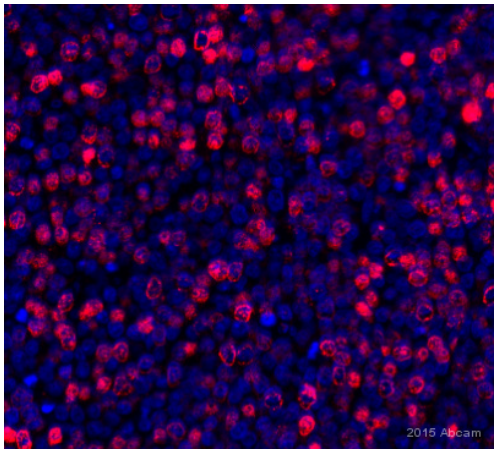
Images



Immunocytochemistry/ Immunofluorescence - Anti-BrdU antibody - Proliferation Marker (ab1893)

This image is courtesy of an anonymous Abreview

ab1893 staining BrdU in COS7 cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.5% Triton X-100 and blocked with 2% BSA for 1 hour at 25°C. Samples were incubated with primary antibody (1/100 in 2% BSA) for 1 hour at 25°C. ab96945, a DyLight® 594-conjugated rabbit anti-sheep IgG (H+L) polyclonal was used as the secondary antibody (1/200). Nuclei are stained blue with DAPI.



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 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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