Product datasheet

Anti-BrdU antibody ab152095

Overview

Product name: Anti-BrdU antibody
Description: Rabbit polyclonal to BrdU
Host species: Rabbit
Tested applications: Suitable for: ICC/IF, IHC-P
Immunogen: Chemical/ Small Molecule corresponding to BrdU.
Positive control: HeLa cells treated with 100µM BrdU for 4hrs.
General notes: This antibody has so far been only tested in cultured cells (ICC/IF), but not with tissue sections (IHC).

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer: pH: 7.00
Preservative: 0.01% Thimerosal (merthiolate)
 Constituents: 0.75% Glycine, 1.21% Tris, 20% Glycerol
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab152095 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ICC/IF</td>
<td>1/100 - 1/1000.</td>
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<tr>
<td>IHC-P</td>
<td>Use at an assay dependent concentration. PubMed: 28397811</td>
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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 and 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

Immunofluorescent analysis of paraformaldehyde-fixed HeLa cells treated with or without 100µM BrdU for 4 hours, labeling BrdU with ab152095 at 1/50 dilution. Lower images stained with Hoechst 33342.

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