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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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BrdU Immunohistochemistry Kit

exalpa.com/product/brdu-immunohistochemistry-kit-2

Catalogue number:

X1545K.1

Product Type	Kits
Units	50 Slides
Application	Immunocytochemistry Immunohistochemistry (frozen & paraffin)

Background

The BrdU Immunohistochemistry Kit is a non-isotopic enzyme immunoassay for the detection and quantification of DNA synthesis and cell proliferation. Evaluation of cell cycle progression is essential for investigations in many scientific fields. Measurement of [3H] thymidine incorporation as cells enter S-phase has long been the traditional method for the detection of cell proliferation. Subsequent quantification of [3H] thymidine is performed by scintillation counting or autoradiography. This technology is slow, labor intensive and has several limitations including the handling and disposal of radioisotopes and the necessity of expensive equipment. A well-established alternative to [3H] thymidine uptake has been demonstrated by numerous investigators. In these methods bromodeoxyuridine (BrdU), a thymidine analog, replaces [3H] thymidine. BrdU is incorporated into newly synthesized DNA strands of actively proliferating cells. Following partial denaturation of double stranded DNA, BrdU is detected immunochemically allowing the assessment of the population of cells which are actively synthesizing DNA. Exalpa Biologicals BrdU Immunohistochemistry Kit involves incorporation of BrdU Reagent into cells, either in tissues after injection of BrdU in experimental animals or in cells cultured in microtiter plates or on glass slides. The resultant assay is, rapid, easy to perform and applicable to high sample throughput. In addition to evaluation of cell proliferation, information such as cell number, morphology and analysis of cellular antigens can be obtained from a single culture or tissue section.

Product

The BrdU Cell Immunohistochemistry Kit contains all ingredients (antibodies, buffers and detection reagents) needed for the immunohistochemical detection and

quantification of the proliferative activity of cells and tissues. The kit contains 5 control slides with BrdU prelabeled MCF-7 cells (one of which is prestained) as well as an instruction manual describing the relevant protocols for BrdU immunostaining.

Applications

Immunohistochemistry on formalin fixed, paraffin embedded, as well as frozen tissue sections. Furthermore this kit can be used for the immunocytochemical staining of cultured cells on glass slides or cell culture plates. Optimal concentration of the primary antibody should be evaluated by serial dilutions.

Storage

Upon receipt, store entire kit at -20°C. Once the kit is thawed, you may keep it at 4°C for 5 days. For long-term storage, it is recommended you aliquot and freeze the components at -20°C, particularly the Streptavidin-HRP Conjugate, the Prediluted Biotinylated Sheep anti-BrdU Detector Antibody and the 4x Trypsin Concentrate.

Shipping Conditions: The Exalpha Biologicals BrdU Immunohistochemistry Kit components are shipped on blue ice.

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. It may contain hazardous ingredients. Please refer to the Safety Data Sheets (SDS) for additional information and proper handling procedures. Dispose product remainders according to local regulations. This datasheet is as accurate as reasonably achievable, but Exalpha Biologicals accepts no liability for any inaccuracies or omissions in this information.

Kit Manual

[Click here to download the Kit Manual](#)

Safety Datasheet(s) for this product:

EA_X1545K.1-SDS_V1

[/wp-content/uploads/2020/07/X1545K.1-SDS_V1.pdf](#)