

Product Datasheet

EdU DNA Synthesis Monitoring (Microscopy) Kit NBP2-54871

Unit Size: 50 Assays

Store at -20C.

www.novusbio.com



technical@novusbio.com

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-54871

Updated 7/28/2019 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP2-54871



NBP2-54871**EdU DNA Synthesis Monitoring (Microscopy) Kit**

Product Information	
Unit Size	50 Assays
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Store at -20C.
Product Description	
Description	<p>EZClick EdU DNA Synthesis Monitoring Kit: Fluorescence Microscopy Based Assay for measuring de novo DNA synthesis in biological samples such as cell lysate. 50 assays.</p> <ul style="list-style-type: none"> Detection method- Flow cytometry (Ex = 488 nm; Em = 530 nm) and fluorescence microscopy Applications: Detect early/middle stages of apoptosis; differentiate apoptosis from necrosis.
Species	Human, Mouse, Rat, Mammal
Kit Components	EZClick Wash Buffer (10X), Fixative Solution, Permeabilization Buffer (10X), EZClick EdU DNA Label (1000X), Copper Reagent (500X), EZClick Fluorescent Azide (100X), Reducing Agent (20X), EZClick Total DNA Stain (1000X)
Suitable Sample Type	Adherent and suspension cells
Product Application Details	
Application Notes	<p>All living cells undergo division cycle, a biological process crucial for proliferation and inheritance. Cell-division cycle is a series of events resulting in two daughter cells containing replicas of DNA from the original DNA molecule. DNA replication occurs in the S phase of the cell cycle and involves de novo synthesis of genomic DNA from its precursors. The ability of monitoring detailed characterization of cell cycle and DNA synthesis in proliferating cells is fundamental in basic, and applied immunologic and oncologic studies. Accurate determination of the effect of biologically active reagents on DNA synthesis and cell cycle is of great importance in anti-cancer drug discovery and basic biology. The EZClick EdU DNA Synthesis Monitoring Kit utilizes a novel approach that relies on incorporation of 5-EdU (5-ethynyl-2'deoxyuridine) as nucleoside analog to thymidine into newly synthesized DNA directly in the cell culture. Incorporation of EdU into genomic DNA in S-phase is detected based on a click reaction between the alkyne moiety of EdU and fluorescent azide. Compared to historically used BrdU, click reaction is carried in mild conditions and fluorescence microscopy can be used for assessment of proliferating cells in the population. Our kit provides sufficient materials for 50 assays based on the protocol below-50 assays</p>



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-
techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Kits are guaranteed for 6 months from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP2-54871

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

