Product Datasheet

BrdU Cell Proliferation Assay Kit (Colorimetric)
NBP2-54888

Unit Size: 200 Assays

Store at -20C.

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Publications: 8

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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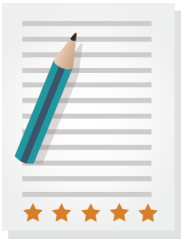
Updated 5/5/2024 v.20.1



NBP2-54888

BrdU Cell Proliferation Assay Kit (Colorimetric)

Product Information	
Unit Size	200 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	5-bromo-2-deoxyuridine (BrdU) is a pyrimidine analog. It gets incorporated into the newly synthesized DNA of proliferating cells in place of thymidine. The BrdU Cell Proliferation Assay Kit detects incorporated BrdU using a mouse anti-BrdU antibody. An anti-mouse HRP-linked secondary antibody is used to detect the anti-BrdU antibody bound to BrdU, which is followed by addition of TMB (a HRP substrate). The extent of color development is proportional to the quantity of BrdU incorporated into the cells and can be used directly as an indicator of cell proliferation. Compared to other cell proliferation assays, this kit detects only the proliferating cells and not the seeded cells. This highly sensitive, non-radioactive kit detects as few as 50-100 proliferating cells. Detection method: Absorbance at 450 nmApplications: Detection and quantification of cell proliferation induced by growth factors, cytokines, mitogens, and nutrients. Analysis of cytotoxic and cytostatic compounds such as anticancer drugs, toxic agents and other pharmaceuticals. Determination of the inhibitory or stimulatory effects of various compounds on cell proliferation. This product is manufactured by Abcam and distributed by Novus Biologicals. (Abcam Catalog Number: ab287841)
Species	Human, Mouse, Rat, Fish, Mammal
Reactivity Notes	Use in Fish reported in scientific literature (PMID:33333442)
Kit Components	BrdU (1000X), Fixing/Denaturing Solution, BrdU Detection Antibody (300X), Anti-mouse HRP-linked Antibody (2000X), Antibody Diluent, Wash Buffer (10X), TMB Substrate, Stop Solution
Suitable Sample Type	Adherent and suspension cells

Publications

Mazzella M, Walker K, Cormier C et al. Regulation of self-renewal and senescence in primitive mesenchymal stem cells by Wnt and TGF? signaling Stem cell research & therapy 2023-10-26 [PMID: 37880755]

Mazzella M, Walker K, Cormier C et al. WNT and VEGF/PDGF signaling regulate self-renewal in primitive mesenchymal stem cells Research square 2023-04-10 [PMID: 37090660]

Deepa S, Mamta SK, Anitha A, Senthilkumaran B Exposure of carbon nanotubes affects testis and brain of common carp Environmental toxicology and pharmacology 2022-08-10 [PMID: 35963554] (CellDiff, Fish)

Brown C, McKee C, Halassy S et al. Neural stem cells derived from primitive mesenchymal stem cells reversed disease symptoms and promoted neurogenesis in an experimental autoimmune encephalomyelitis mouse model of multiple sclerosis Stem Cell Research & Therapy 2021-12-01 [PMID: 34503569]

Deepa S, Senthilkumaran B Interactive role of Wnt signaling and Zn in regulating testicular function of the common carp, Cyprinus carpio Theriogenology 2020-12-03 [PMID: 33333442] (Fish)

Details:
C. carpio

Raj Gupta Y, Senthilkumaran B Common carp pentraxin gene: Evidence for its role in ovarian differentiation and growth Gen. Comp. Endocrinol. 2020-01-22 [PMID: 31981692] (CellDiff, Fish)

Oliveira, SDS;Chen, J;Castellon, M;Mao, M;Usha Raj, J;Comhair, S;Erzurum, S;Silva, CLM;Machado, RF;Bonini, MG;Minshall, RD; Injury-Induced Shedding of Extracellular Vesicles Depletes Endothelial Cells of Cav-1 (Caveolin-1) and Enables TGF-beta (Transforming Growth Factor-beta)-Dependent Pulmonary Arterial Hypertension Arterioscler. Thromb. Vasc. Biol. 2019-04-04 [PMID: 30943774] (In Vivo, Human)

McDaniel K, Wu N, Zhou T et al. Amelioration of Ductular Reaction by Stem Cell Derived Extracellular Vesicles in MDR2 knockout mice via let-7 microRNA Hepatology 2019-02-05 [PMID: 30723922] (Mouse)

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

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