Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 3, 2025

BrdU

RRID:AB_400326
Type: Antibody

Proper Citation

(BD Biosciences Cat# 347580, RRID:AB_400326)

Antibody Information

URL: http://antibodyregistry.org/AB_400326

Proper Citation: (BD Biosciences Cat# 347580, RRID:AB_400326)

Target Antigen: BrdU

Host Organism: mouse

Clonality: monoclonal

Comments: vendor suggested use: IgG1 Flow Cytometry; Flow Cytometry

Antibody Name: BrdU

Description: This monoclonal targets BrdU

Defining Citation: PMID:17120293, PMID:17206615, PMID:17048225, PMID:17278139, PMID:19048639, PMID:17245711, PMID:19107806, PMID:18300261, PMID:18803241, PMID:21192082, PMID:1804177

Antibody ID: AB_400326

Vendor: BD Biosciences

Catalog Number: 347580

Record Creation Time: 20231110T081116+0000

Record Last Update: 20241115T080321+0000

Ratings and Alerts

No rating or validation information has been found for BrdU.

Warning: ***Extracted Antibody Information:*** "clone BU1/75; ICR1) and mouse anti BrdU-IdU (BD Biosciences Cat# 347580, RRID:***AB_400326***,"

Extracted Specificity Statement: "On the other hand, the rat anti-BrdU antibody, but not the mouse anti-BrdU monoclonal antibody, detects CldU in tissue samples from animals exposed to this thymidine analog (Vega and Peterson, 2005). ***Cross reactivity*** of primary antibodies with the thymidine analogs was tested by incubation of sections of CldU only and IdU only treated animals with anti-IdU or anti-CldU antibodies, respectively (followed by incubation in the corresponding secondary antibodies; Supplementary Figure 1)."

Data was mined by Antibody Watch (https://arxiv.org/pdf/2008.01937.pdf), from ***PMID:25249943***
vendor suggested use: IgG1 Flow Cytometry; Flow Cytometry

Data and Source Information

Source: Antibody Registry

Usage and Citation Metrics

We found 134 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Liu Z, et al. (2024) FANCM promotes PARP inhibitor resistance by minimizing ssDNA gap formation and counteracting resection inhibition. Cell reports, 43(7), 114464.

Dixit S, et al. (2024) RTEL1 helicase counteracts RAD51-mediated homologous recombination and fork reversal to safeguard replicating genomes. Cell reports, 43(8), 114594.

Lim PX, et al. (2024) BRCA2 promotes genomic integrity and therapy resistance primarily through its role in homology-directed repair. Molecular cell, 84(3), 447.

Georgieva D, et al. (2024) BRCA1 and 53BP1 regulate reprogramming efficiency by mediating DNA repair pathway choice at replication-associated double-strand breaks. Cell reports, 43(4), 114006.

Chen Y, et al. (2024) Metabolic regulation of homologous recombination repair by MRE11 lactylation. Cell, 187(2), 294.

Meroni A, et al. (2024) DNA combing versus DNA spreading and the separation of sister chromatids. The Journal of cell biology, 223(4).

Conti BA, et al. (2024) RTF2 controls replication repriming and ribonucleotide excision at the replisome. Nature communications, 15(1), 1943.

Fauser M, et al. (2024) Subthalamic nucleus but not entopeduncular nucleus deep brain stimulation enhances neurogenesis in the SVZ-olfactory bulb system of Parkinsonian rats. Frontiers in cellular neuroscience, 18, 1396780.

Gutierrez R, et al. (2024) Lack of mismatch repair enhances resistance to methylating agents for cells deficient in oxidative demethylation. The Journal of biological chemistry, 300(8), 107492.

Rageul J, et al. (2024) Poly(ADP-ribosyl)ation of TIMELESS limits DNA replication stress and promotes stalled fork protection. Cell reports, 43(3), 113845.

Onji H, et al. (2024) Schlafen 11 further sensitizes BRCA-deficient cells to PARP inhibitors through single-strand DNA gap accumulation behind replication forks. Oncogene, 43(32), 2475.

Saxena S, et al. (2024) Unprocessed genomic uracil as a source of DNA replication stress in cancer cells. Molecular cell, 84(11), 2036.

Nikolaou S, et al. (2024) CYRI-B-mediated macropinocytosis drives metastasis via lysophosphatidic acid receptor uptake. eLife, 13.

Ang CH, et al. (2024) Self-maintenance of zonal hepatocytes during adult homeostasis and their complex plasticity upon distinct liver injuries. Cell reports, 44(1), 115093.

Schvartzman JM, et al. (2023) Oncogenic IDH mutations increase heterochromatin-related replication stress without impacting homologous recombination. Molecular cell, 83(13), 2347.

Maltsev DI, et al. (2023) Aging Modulates the Ability of Quiescent Radial Glia-Like Stem Cells in the Hippocampal Dentate Gyrus to be Recruited into Division by Pro-neurogenic Stimuli. Molecular neurobiology.

Huang L, et al. (2023) Structural insight into H4K20 methylation on H2A.Z-nucleosome by SUV420H1. Molecular cell, 83(16), 2884.

Meroni A, et al. (2023) DNA Combing versus DNA Spreading and the Separation of Sister Chromatids. bioRxiv : the preprint server for biology.

Nguyen DD, et al. (2023) Deficiency in mammalian STN1 promotes colon cancer development via inhibiting DNA repair. Science advances, 9(19), eadd8023.

Huffman BM, et al. (2023) A Phase I Expansion Cohort Study Evaluating the Safety and Efficacy of the CHK1 Inhibitor LY2880070 with Low-dose Gemcitabine in Patients with Metastatic Pancreatic Adenocarcinoma. Clinical cancer research : an official journal of the

American Association for Cancer Research, 29(24), 5047.