Resource Summary Report

Generated by RRID on Jul 28, 2026

Rat Anti-Chemical BrdU Monoclonal antibody, Unconjugated, Clone BU1/75 (ICR1)

RRID:AB_609568
Type: Antibody

Proper Citation

(Bio-Rad Cat# OBT0030, RRID:AB_609568)

Antibody Information

URL: http://antibodyregistry.org/AB_609568

Proper Citation: (Bio-Rad Cat# OBT0030, RRID:AB_609568)

Target Antigen: Chemical BrdU

Host Organism: rat

Clonality: monoclonal

Comments: manufacturer recommendations: Flow Cytometry; Immunohistochemistry; Flow Cytometry, Immunohistology - Paraffin

Antibody Name: Rat Anti-Chemical BrdU Monoclonal antibody, Unconjugated, Clone BU1/75 (ICR1)

Description: This monoclonal targets Chemical BrdU

Target Organism: Chemical

Clone ID: Clone BU1/75 (ICR1)

Defining Citation: PMID:19296475, PMID:16856135, PMID:19003791, PMID:20886617, PMID:22628012, PMID:17278139, PMID:18271024, PMID:21120924, PMID:16736467, PMID:17348003, PMID:16927265, PMID:18236450, PMID:19496176, PMID:16874803, PMID:20394053, PMID:17183542, PMID:20017208, PMID:23631981

Antibody ID: AB_609568

Vendor: Bio-Rad

Catalog Number: OBT0030

Record Creation Time: 20260218T231758+0000

Record Last Update: 20260225T233813+0000

Ratings and Alerts

No rating or validation information has been found for Rat Anti-Chemical BrdU Monoclonal antibody, Unconjugated, Clone BU1/75 (ICR1).

Warning: ***Extracted Antibody Information:*** "In order to expose the proliferation markers, tissue sections were pretreated to break double-stranded DNA into single strands, by incubation in 2 N HCl in PB containing 0.3% Triton X-100 (PB-T) for 50 min. After rinsing in PB (3 × 10 min), sections were incubated overnight at 40°C in both rat anti BrdU-CldU (AbD Serotec Cat# OBT0030, RRID:***AB_609568***;"

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***
manufacturer recommendations: Flow Cytometry; Immunohistochemistry; Flow Cytometry, Immunohistology - Paraffin Warning: ***Extracted Antibody Information:*** "After rinsing in PB (3 × 10 min), sections were incubated overnight at 40°C in both rat anti BrdU-CldU (AbD Serotec Cat# OBT0030, RRID:***AB_609568***;"

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Data was mined by Antibody Watch (https://arxiv.org/pdf/2008.01937.pdf), from ***PMID:25249943***
manufacturer recommendations: Flow Cytometry; Immunohistochemistry; Flow Cytometry, Immunohistology - Paraffin

Data and Source Information

Source: Antibody Registry

Usage and Citation Metrics

We found 47 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Herold C, et al. (2025) Adult Striatal Neurogenesis-A Comparative Approach Between Pigeons, Mice, Macaques, and Human. The Journal of comparative neurology, 533(11), e70107.

Kawasawa YI, et al. (2025) Prenatal alcohol exposure perturbs the development of radial glial cells in the fetal olfactory bulb. Alcohol, clinical & experimental research.

Pappas G, et al. (2025) Protocol for image-based monitoring of de novo RNA synthesis at DNA double-strand breaks in human cell lines. STAR protocols, 6(4), 104157.

Tufo C, et al. (2025) Functional Maturation and Experience-Dependent Plasticity in Adult-Born Olfactory Bulb Dopaminergic Neurons. The European journal of neuroscience, 62(1), e70188.

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.

Pappas G, et al. (2023) MDC1 maintains active elongation complexes of RNA polymerase II. Cell reports, 42(1), 111979.

Campos-Ordoñez T, et al. (2023) Normal pressure hydrocephalus decreases the proliferation of oligodendrocyte progenitor cells and the expression of CNPase and MOG proteins in the corpus callosum before behavioral deficits occur. Experimental neurology, 365, 114412.

Leiter O, et al. (2023) Platelet-derived exerkine CXCL4/platelet factor 4 rejuvenates hippocampal neurogenesis and restores cognitive function in aged mice. Nature communications, 14(1), 4375.

Leiter O, et al. (2022) Selenium mediates exercise-induced adult neurogenesis and reverses learning deficits induced by hippocampal injury and aging. Cell metabolism, 34(3), 408.

Smith BM, et al. (2022) Oral and Injected Tamoxifen Alter Adult Hippocampal Neurogenesis in Female and Male Mice. eNeuro, 9(2).

Egger T, et al. (2022) A clinically relevant heterozygous ATR mutation sensitizes colorectal cancer cells to replication stress. Scientific reports, 12(1), 5422.

Vega-Riquer JM, et al. (2022) Phenytoin promotes the proliferation of oligodendrocytes and enhances the expression of myelin basic protein in the corpus callosum of mice demyelinated by cuprizone. Experimental brain research, 240(5), 1617.

Adusumilli VS, et al. (2021) ROS Dynamics Delineate Functional States of Hippocampal Neural Stem Cells and Link to Their Activity-Dependent Exit from Quiescence. Cell stem cell, 28(2), 300.

Karlsson L, et al. (2021) Constitutive PGC-1? Overexpression in Skeletal Muscle Does Not Contribute to Exercise-Induced Neurogenesis. Molecular neurobiology, 58(4), 1465.

Zampetidis CP, et al. (2021) A recurrent chromosomal inversion suffices for driving escape from oncogene-induced senescence via subTAD reorganization. Molecular cell, 81(23), 4907.

Kälin RE, et al. (2021) TAMEP are brain tumor parenchymal cells controlling neoplastic angiogenesis and progression. Cell systems, 12(3), 248.

Nakashima H, et al. (2021) MeCP2 controls neural stem cell fate specification through miR-199a-mediated inhibition of BMP-Smad signaling. Cell reports, 35(7), 109124.

Tai W, et al. (2021) In vivo reprogramming of NG2 glia enables adult neurogenesis and functional recovery following spinal cord injury. Cell stem cell, 28(5), 923.

Wang LL, et al. (2021) Revisiting astrocyte to neuron conversion with lineage tracing in vivo. Cell, 184(21), 5465.

Nacson J, et al. (2020) BRCA1 Mutational Complementation Induces Synthetic Viability. Molecular cell, 78(5), 951.