

BrdU Monoclonal Antibody (MoBU-1), Alexa Fluor™ 594

Catalog NumberB35132

Product data sheet

Details		Species Reactivity	
Size	350 µL	Species reactivity	Chemical
Host/Isotope	Mouse / IgG	Published species	Chemical, Mouse
Class	Monoclonal	Tested Applications	
Type	Antibody	Immunohistochemistry (IHC)	Dilution * Assay-dependent
Clone	MoBU-1	Published Applications	
Immunogen	BrdU	Immunocytochemistry (ICC/IF)	See 5 publications below
Conjugate	Alexa Fluor™ 594	Immunoprecipitation (IP)	See 1 publications below
Form	Liquid	Immunohistochemistry (Frozen) (IHC (F))	See 1 publications below
Concentration	0.2 mg/mL	Immunohistochemistry (IHC)	See 1 publications below
Purification	Affinity chromatography	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage buffer	PBS, pH 7.2		
Contains	5mM sodium azide		
Storage Conditions	4° C		

Background/Target Information

Bromodeoxyuridine (5-bromo-2-deoxyuridine, BrdU) is a synthetic nucleoside that is an analogue of thymidine. BrdU is commonly used in the detection of proliferating cells in living tissues, and can be incorporated into the newly synthesized DNA of replicating cells (during the S phase of the cell cycle), substituting for thymidine during DNA replication. Antibodies specific for BrdU can then be used to detect the incorporated chemical, thus indicating cells that were actively replicating their DNA. Binding of the antibody requires denaturation of the DNA, usually by exposing the cells to acid or heat.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.

PubMed References For BrdU Monoclonal Antibody (MoBU-1), Alexa Fluor™ 594

5 Immunocytochemistry References

Species / Dilution	Summary
Chemical / Not Cited	B35132 was used in Immunocytochemistry to understand a role of eIF4E S209 in oncogenic translation by generating EIF4ES209A/+ heterozygous knockin (4EKI) HCT 116 human colorectal cancer (CRC) cells. eLife (2020; 9:) "eIF4E S209 phosphorylation licenses myc- and stress-driven oncogenesis." Author(s):Ruan H,Li X,Xu X,Leibowitz BJ,Tong J,Chen L,Ao L,Xing W,Luo J,Yu Y,Schoen RE,Sonenberg N,Lu X,Zhang L, Yu J PubMed Article URL: http://dx.doi.org/10.7554/eLife.60151
	B35132 was used in immunocytochemistry to identify the nuclear export signal for opioid growth factor receptor. Experimental biology and medicine (Maywood, N.J.) (2016; 241: 273) "Featured Article: Nuclear export of opioid growth factor receptor is CRM1 dependent." Author(s):Kren NP,Zagon IS,McLaughlin PJ PubMed Article URL: http://dx.doi.org/10.1177/1535370215605585
Chemical / Not Cited	B35132 was used in Immunocytochemistry-immunofluorescence to show long non-coding RNA HOTAIR has a prominent role in endometriosis. PloS one (2021; 16:) "Genetic impacts on thermostability of onco-lncRNA HOTAIR during the development and progression of endometriosis." Author(s):Chang CY,Tseng CC,Lai MT,Chiang AJ,Lo LC,Chen CM,Yen MJ,Sun L,Yang L,Hwang T,Tsai FJ,Sheu JJ PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0248168
	B35132 was used in Immunocytochemistry-immunofluorescence to investigate whether expression of the plant DEMETER family of 5-methylcytosine DNA glycosylases in human cells allows direct 5-methylcytosine excision. Scientific reports (2017; 7:) "DEMETER plant DNA demethylase induces antiviral response by interferon signalling in animal cells." Author(s):Mok YG,Choi KY,Hong SH,Huh JH PubMed Article URL: http://dx.doi.org/10.1038/s41598-017-08827-9
Chemical / 1:100	B35132 was used in Immunocytochemistry-immunofluorescence to examine the contribution of vascular smooth muscle cell contractile-to-proliferative phenotype conversion to atherosclerotic plaque growth. EMBO molecular medicine (2016; 8: 712) "Smooth muscle FGF/TGF cross talk regulates atherosclerosis progression." Author(s):Chen PY,Qin L,Li G,Tellides G,Simons M PubMed Article URL: http://dx.doi.org/10.15252/emmm.201506181

1 Immunoprecipitation References

Species / Dilution	Summary
Mouse / 1:20	B35132 was used in Immunoprecipitation to demonstrate that the MCM assembly process is a pivotal target of TGF1 in eliciting cell cycle arrest, and provide evidence for a novel oncogenic role for CDT1 in abrogating TGF1 inhibition of MCM assembly. Molecular cancer research : MCR (2019; 17: 277) "TGF1 Cell Cycle Arrest Is Mediated by Inhibition of MCM Assembly in Rb-Deficient Conditions." Author(s):Nepon-Sixt BS,Alexandrow MG PubMed Article URL: http://dx.doi.org/10.1158/1541-7786.MCR-18-0558

1 Immunohistochemistry (Frozen) References

Species / Dilution	Summary
Chemical / 1:50	B35132 was used in Immunofluorescence in immunohistochemistry on frozen tissues to assess the importance of Pax9-dependent Wnt signalling in palatogenesis. Development (Cambridge, England) (2017; 144: 3819) "Small-molecule Wnt agonists correct cleft palates in Pax9 mutant mice in utero." Author(s):Jia S,Zhou J,Fanelli C,Wee Y,Bonds J,Schneider P,Mues G,D'Souza RN PubMed Article URL: http://dx.doi.org/10.1242/dev.157750

1 Immunohistochemistry References

Species / Dilution	Summary
--------------------	---------

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.

B35132 was used in immunohistochemistry to show that macrophage-derived VEGF-C activates VEGFR-3 in tip cells to reinforce Notch signaling.

Nature cell biology (2011; 13: 1202)

"VEGFR-3 controls tip to stalk conversion at vessel fusion sites by reinforcing Notch signalling."

Author(s):Tammela T,Zarkada G,Nurmi H,Jakobsson L,Heinolainen K,Tvorogov D,Zheng W,Franco CA,Murtomäki A,Aranda E,Miura N,Ylä-Herttuala S,Fruttiger M,Mäkinen T,Eichmann A,Pollard JW,Gerhardt H,Alitalo K

PubMed Article URL:<http://dx.doi.org/10.1038/ncb2331>

Chemical / 1:500

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.