For Research Use Only

BrdU Monoclonal antibody

Catalog Number:66241-1-Ig 67 Publications

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Basic Information

Catalog Number:
66241-1-Ig

Size:
150ul , Concentration: 1000 μg/ml by Nanodrop and 485 μg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

GenBank Accession Number:

GeneID (NCBI):

Full Name:

Purification Method:
Protein A purification

CloneNo.:
1B10E12

Recommended Dilutions:
IHC 1:200-1:1000
IF 1:150-1:600

Applications

Tested Applications:
IF, IHC, ELISA

Cited Applications:
IF, FC, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse, zebrafish

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : mouse spleen tissue,

IF : HeLa cells, L-929 cells

Background Information

Bromodeoxyuridine (5-bromo-2'-deoxyuridine, BrdU, BUdR, BrdUrd) is a synthetic nucleoside that is an analog of thymidine. It 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. As such, BrdU is used for birth dating and monitoring cell proliferation. BrdU is a toxic and mutagenic substance. It triggers cell death, the formation of teratomas, alters DNA stability, lengthens the cell cycle, and has 0mitogenic, transcriptional and translational effects on cells that incorporate it. This antibody does not cross react with Thymidine.

Protocol for IHC:
https://www.ptgcn.com/protocol/66241-1-IgIHC.pdf

Protocol for IF:
https://www.ptgcn.com/protocol/66241-1-IgIF.pdf

Notable Publications

Author	Pubmed ID	Journal	Application
Pingping Zhu	30224759	Nat Cell Biol	IHC,IF
Yang Liu	34481025	J Control Release	IF
Yusuke Matsuno	31477700	Nat Commun	IF

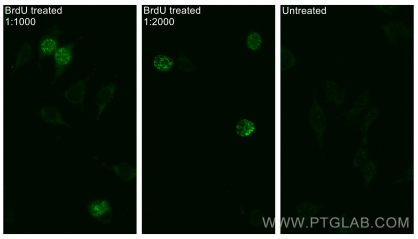
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

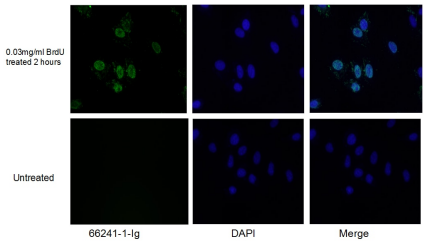
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

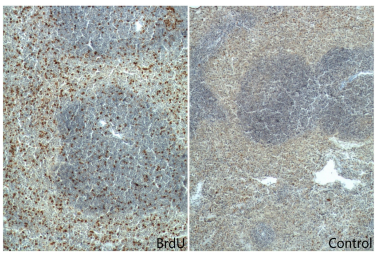
Selected Validation Data



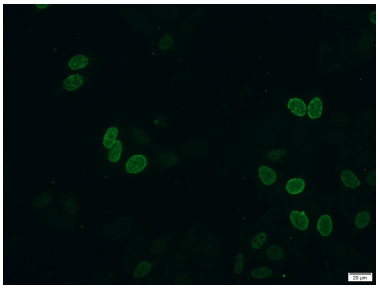
Immunofluorescent analysis of (-20°C Ethanol) fixed L-929 cells using BrdU antibody (66241-1-Ig, Clone: 1B10E12) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 66241-1-Ig (BrdU antibody) at dilution of 1:300 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide (with/without BrdU feeding) using 66241-1-Ig (BrDu Antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HeLa cells (treated with 0.03 mg/ml BrdU for 2 hours) using 66241-1-Ig(BrdU antibody) at dilution of 1:300 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).