SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-BrdU (Proliferation Marker)antibody

SL0917R

Product Name	BrdU(Proliferation Marker)
Chinese Name	5-溴脱氧尿嘧啶核苷（增殖 Maker）抗体
Alias	Bromodeoxyuridine; Bromodeoxyuridine; 5-Bromo-2′-deoxyuridine; 5-BrdU; Proliferation Marker; 5-Bromo-2-deoxyUridine.
Product Type	Small molecule anti
Research Area	Cell biology Developmental biology Chromatin and nuclear signals Neurobiology Apoptosis Cyclin Drugs and Compounds Cell type markers
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Species independent
Applications	ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	0.3071kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated Brdu
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Bromodeoxyuridine (BrdU) is a thymidine analog and is specifically incor-porated into DNA during DNA synthesis. Anti-bromodeoxyuridine monoclonal antibody is used to identify cells that have incorporated BrdU. This immunological detection scheme has several advantages over the use of radioactive thymidine incorporation for identifying cells under-going replication. Labeling and detection can be performed the same day instead of waiting several days, as required for autoradiography of tritium-labeled cells, and the necessity of using multiple specimens for obtaining the optimal exposure time is eliminated. In addition, anti-bromodeoxyuridine staining with flow cytometric analysis allows multiple parameters to be evaluated simultaneously. Anti-bromodeoxyuridine monoclonal antibody has been used for identi-fying proliferating cells in blood (Campana et al., 1988), tissues (Schutte et al., 1987; Hayashi, et al., 1988), tumors (Hoshino et al., 1986; Morstyn et al., 1983), as well as for determining plasma cell labeling indices (Greipp et al., 1985).

Product Detail

Subcellular Location:
Nuclear.

SWISS:
N/A

CAS:
59-14-3

BrdU（溴化脱氧尿嘧啶核苷）可以在体内和体外掺入到处于 S 期的细胞所合成的 DNA 链中。此抗体可以与掺入到任何种属细胞中的 BrdU 反应，与碘脱氧尿嘧啶有 React Species，标记掺有 BrdU 的 S 期细胞，主要用于研究各种不同的因素对正常/Tumour 组织的细胞增殖及动力学的研究。用 FITC 标记的抗 BrdU IgG 可用于流式细胞术定量检测增值细胞。

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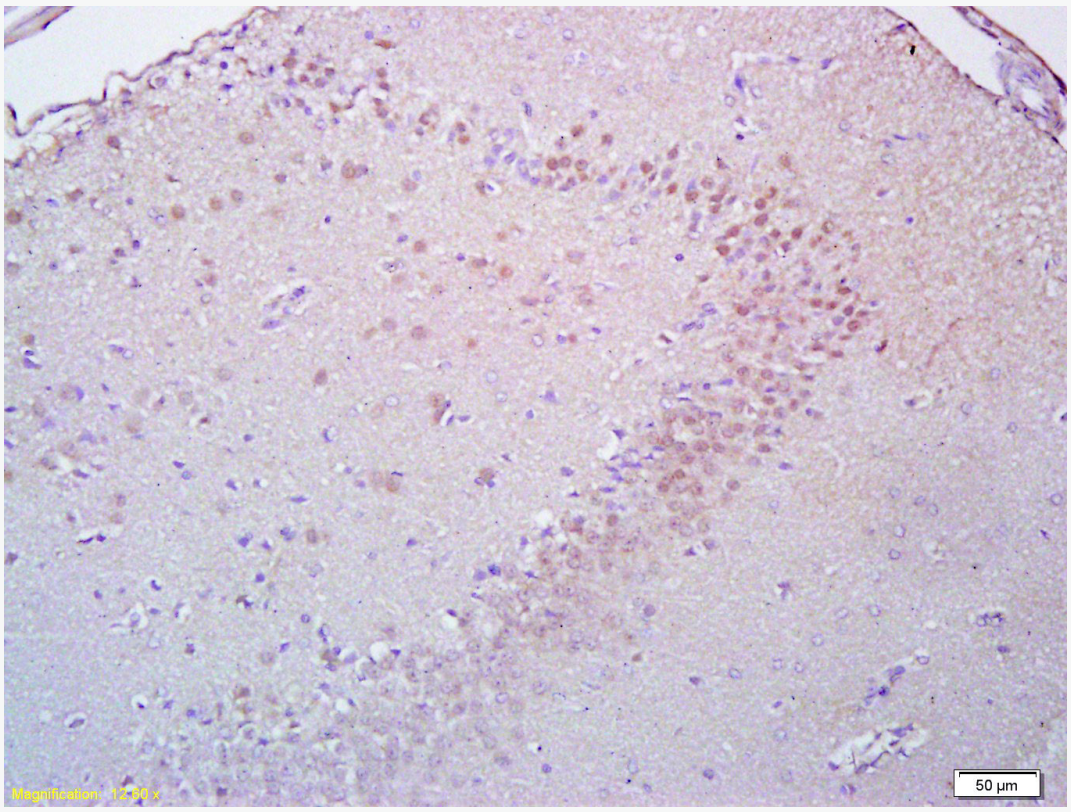
Product Picture



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Brdu Polyclonal Antibody, Unconjugated(SL0917R) 1:100, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining