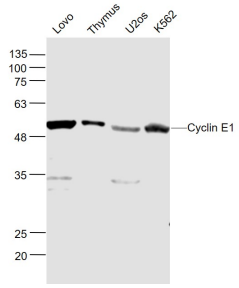
www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

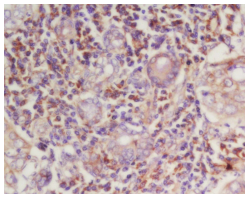
Cyclin E1 Rabbit pAb

Catalog Number:	bs-0573R
Target Protein:	Cyclin E1
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1µg/Test)
Reactivity:	Human, Mouse, Rat
Predicted MW:	45 kDa
Entrez Gene:	25729
Swiss Prot:	P39949
Source:	KLH conjugated synthetic peptide derived from rat Cyclin E: 375-411/411.
Purification:	affinity purified by Protein A
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	Cyclin E is a regulatory subunit of Cdk2 and controls G1 / S transition during the mammalian cell cycle. Multiple isoforms of Cyclin E are only expressed in tumors but not in normal tissue, suggesting a post transcriptional regulation of Cyclin E. In vitro analyses indicated that these truncated variant isoforms of Cyclin E are able to phosphorylate histone H1. Alterations in the Cyclin E protein have been implicated as indicators of worse prognosis in various cancers.

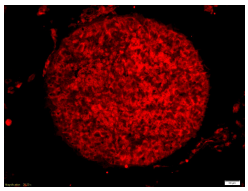
VALIDATION IMAGES



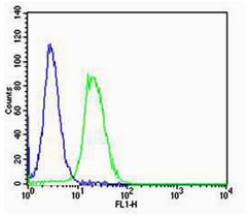
Sample: Lovo (Human) Cell Lysate at 30 ug Thymus (Mouse) Lysate at 40 ug U2os (Human) Cell Lysate at 30 ug K562 (Human) Cell Lysate at 30 ug Primary: Anti- Cyclin E1 (bs-0573R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: 50 kD



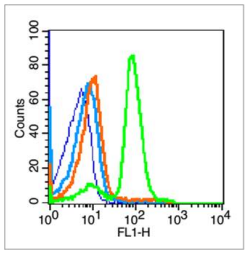
Tissue/cell: human laryngocarcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Cyclin-E Polyclonal Antibody, Unconjugated(bs-0573R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



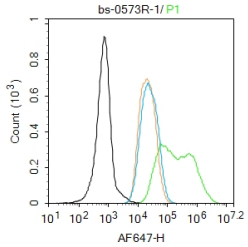
Tissue/cell: rat testis tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Cyclin E Polyclonal Antibody, Unconjugated(bs-0573R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C.



Cell: NIH/3T3 Concentration:1:100 Host/Isotype:Rabbit/IgG Flow cytometric analysis of primary antibody (Cat#: bs-0573R) on NIH/3T3(green) compared with Rabbit IgG isotype control in the absence of primary antibody (blue) followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG(H+L) secondary antibody .



Blank control (blue line): Mouse spleen cells (blue). Primary Antibody (green line): Rabbit Anti-Cyclin E1 antibody (bs-0573R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC Dilution: 1µg /test. Protocol The cells were fixed with 70% ethanol (overninght at 4°C) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control: MCF7. Primary Antibody (green line): Rabbit Anti-Cyclin E1 antibody (bs-0573R) Dilution: 2µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at-20°C.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

PRODUCT SPECIFIC PUBLICATIONS

[IF=11.205] Cong Lan. et al. Inhibition of DYRK1A, via histone modification, promotes cardiomyocyte cell cycle activation and cardiac repair after myocardial infarction. EBIOMEDICINE. 2022 Aug;82:104139 WB ; Rat . 35810562

[IF=8.74] Chen et al. STAT1 inhibits human hepatocellular carcinoma cell growth through induction of p53 and Fbxw7. (2015) Cancer.Cell.Int. 15:111 WB ; Human . 26617467

[IF=5.652] Haijun Sun. et al. WD Repeat Domain 43 promotes malignant progression of non-small cell lung cancer by regulating CDK2. INT J BIOCHEM CELL B. 2022 Aug;:106293 WB ; Human . 10.1016/j.biocel.2022.106293

[IF=6.1] Cuifang Chang. et al. The orphan GPR50 receptor interacting with TβRI induces G1/S-phase cell cycle arrest via Smad3-p27/p21 in BRL-3A cells. BIOCHEM PHARMACOL. 2022 Aug;202:115117 WB ; Rat . 35671788

[IF=4.5] Dong-Dong Wang. et al. Identification of diterpenoids from Salvia castanea Diels f. tomentosa Stib and their antitumor activities. BIOORG CHEM. 2024 Aug;:107701 WB ; Human . 39154520