bs-0573R **[Primary Antibody]**

Cyclin E1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 25729 **SWISS:** P39949

Target: Cyclin E1

Immunogen: KLH conjugated synthetic peptide derived from rat Cyclin E: 375-411/411.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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.

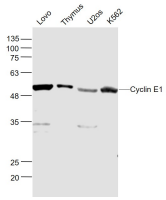
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg/Test)

Reactivity: Human, Mouse, Rat

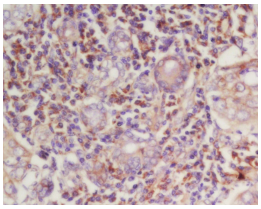
Predicted MW.: 45 kDa

Subcellular Location: Nucleus

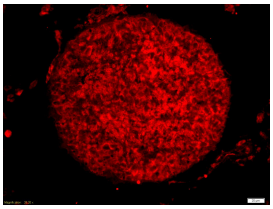
VALIDATION IMAGES



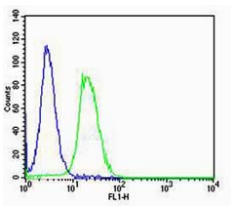
Sample: Lovo (Human) Cell Lysate at 30 ug Thymus (Mouse) Lysate at 40 ug U2os (Human) Cell Lysate at 30 ug K562 (Human) Cell Lysate at 30 ug Primary: Anti- Cyclin E1 (bs-0573R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: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



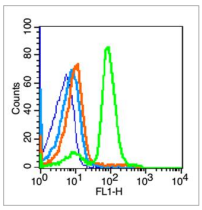
Tissue/cell: human laryngocarcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: 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-



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

conjugated goat anti-rabbit IgG(H+L) secondary antibody .

/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.

SELECTED CITATIONS

- **[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=9.1]** Fan Yang. et al. A Novel ceRNA Axis LOC121818100/Novel-miR-400/SSRP1 Regulated Muscle Growth and Injury Repair in Sheep. J CACHEXIA SARCOPENI. 2025 Jun;16(3):e13836 WB ;Sheep. 40468947
- **[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