bs-1148R **[Primary Antibody]**

Cyclin D2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 894 **SWISS:** P30279

Target: Cyclin D2

Immunogen: KLH conjugated synthetic peptide derived from the middle of human Cyclin D2: 161-288/288.

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: The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance throughout the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with tumor suppressor protein Rb and the expression of this gene is regulated positively by Rb. Mutations, amplification and overexpression of this gene, which alters cell cycle progression, are observed frequently in a variety of tumors and may contribute to tumorigenesis.

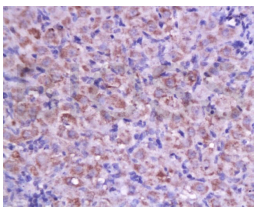
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (5μg/Test)

Reactivity: Human, Rat (predicted: Mouse)

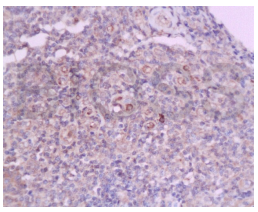
Predicted MW.: 35 kDa

Subcellular Location: Cytoplasm ,Nucleus

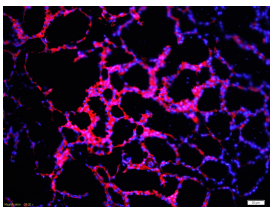
VALIDATION IMAGES



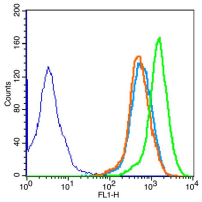
Tissue/cell: rat ovary tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Cyclin D2 Polyclonal Antibody, Unconjugated(bs-1148R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human flat moss tinea tissue; 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 D2 Polyclonal Antibody, Unconjugated(bs-1148R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat mammary 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 D2 Polyclonal Antibody, Unconjugated(bs-1148R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, PE conjugated (bs-0295G-PE)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei



The figure annotation: The blue histogram is unstained cells. The Wathet Blue histogram is cells stained with secondary antibody(bs-0295G-FITC) alone. The Orange histogram is cells stained with rabbit IgG isotype control(bs-0295P) antibody plus secondary antibody. The green histogram is cells stained with Rabbit Anti-Cyclin D2 antibody (bs-1148R)plus secondary antibody. . Concebtration: 5μg/10^6 cells. Positive control: MCF-7 cells.

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=4.04]** Wang, Y., et al. "Elevated toll-like receptor 3 inhibits pancreatic b-cell proliferation through G1 phase cell cycle arrest." Molecular and Cellular Endocrinology (2013) WB ;Mouse. 23850521
- **[IF=1]** Jie Ma. et al. Secoxyloganin inhibits growth of breast cancer MDA-MB-231 cells via induction of apoptosis and cell cycle arrest. ALL LIFE. 2024 Oct 04 WB ;Human. 10.1080/26895293.2024.2408433