bs-5238R

[Primary Antibody]

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phospho-CDKN1A/p21 (Thr57) Rabbit pAb

DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

GeneID: 1026 SWISS: P38936

Target: CDKN1A/p21 (Thr57)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human

CDKN1A around the phosphorylation site of Thr57: TE(p-T)PL.

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: This gene encodes a potent cyclin-dependent kinase inhibitor. The encoded protein binds to and inhibits the activity of cyclin-CDK2 or -CDK4 complexes, and thus functions as a regulator of cell cycle progression at G1. The expression of this gene is tightly controlled by the tumor suppressor protein p53, through which this protein mediates the p53-dependent cell cycle G1 phase arrest in response to a variety of stress stimuli. This protein can interact with proliferating cell nuclear antigen (PCNA), a DNA polymerase accessory factor, and plays a regulatory role in S phase DNA replication and DNA damage repair. This protein was reported to be specifically cleaved by CASP3-like caspases, which thus leads to a dramatic activation of CDK2, and may be instrumental in the execution of apoptosis following caspase activation. Two alternatively spliced variants, which encode an identical protein, have been reported. Two families of cyclin dependent kinase inhibitors (CKIs) have been identified. The p21WAF1/Cip1 family inhibits all kinases involved in the G1/S transition. The p16INK4a family inhibits Cdk4 and Cdk6 specifically.

Applications: IHC-P (1:100-500)

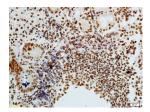
IHC-F (1:100-500) **IF** (1:100-500) Flow-Cyt (2ug/Test)

Reactivity: Human, Mouse, Rat

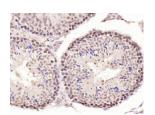
Predicted 18 kDa MW.:

Subcellular Location: Cytoplasm ,Nucleus

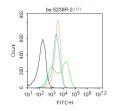
VALIDATION IMAGES



Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffinembedded; 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-phospho-CDKN1A/P21(Thr57) Polyclonal Antibody, Unconjugated(bs-5238R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-p21 (Thr57)) Polyclonal Antibody, Unconjugated (bs-5238R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control: 293T. Primary Antibody (green line): Rabbit Anti-phospho-CDKN1A/p21 (Thr57) antibody (bs-5238R) Dilution: 2µg/10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: $1\mu g$ /test. Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block nonspecific 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.

• [IF=6.3] Yoshio Nishida. et al. Dynamic transcriptome analysis of osteal macrophages identifies distinct subset wi senescence features in experimental osteoporosis. JCI INSIGHT. 2024 Oct;():382418 IHC, WB; Mouse, Human. 39480497	LECTED CITATIONS ——	
	senescence features in experim	