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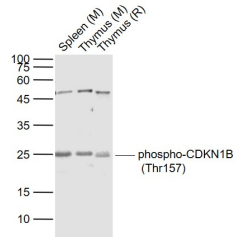
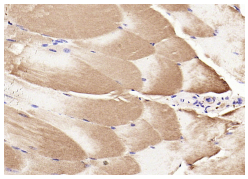
phospho-CDKN1B (Thr157) Rabbit pAb

Catalog Number:	bs-5228R
Target Protein:	phospho-CDKN1B (Thr157)
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:Rabbit, Pig, Dog, GuineaPig)
Predicted MW:	22 kDa
Subcellular Locations:	Cytoplasm ,Nucleus
Entrez Gene:	1027
Swiss Prot:	P46527
Source:	KLH conjugated Synthesised phosphopeptide derived from human CDKN1B around the phosphorylation site of Thr157: PA(p-T)DD.
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:	Cell cycle progression is regulated by cyclins and their cognate Cdks. p27 KIP 1 is a cell cycle regulatory mitotic inhibitor of cdk activity. p27 KIP 1 is a candidate tumor suppressor gene, and has been proposed to function as a possible mediator of TGF beta induced G1 arrest. p27 KIP 1 is up regulated in response to antimitogenic stimuli. The increased protein expression of p27 results in cellular arrest by binding to cyclin/Cdk complexes such as cyclin D1/Cdk4. p27 Kip1 is regulated by phosphorylation on serine 10 (S10) and threonine 187 (T187). Phosphorylation by CDK2 on T187 results in ubiquitylation and degradation of p27 Kip 1; while phosphorylation by hKIS on S10 signals the nuclear export to the cytoplasm.

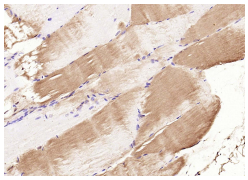
VALIDATION IMAGES



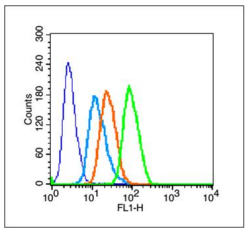
Sample: Lane 1: Spleen (Mouse) Lysate at 40 ug Lane 2: Thymus (Mouse) Lysate at 40 ug Lane 3: Thymus (Rat) Lysate at 40 ug Primary: Anti-phospho-CDKN1B (Thr157) (bs-5228R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 27 kD Observed band size: 25 kD



Paraformaldehyde-fixed, paraffin embedded (mouse skeletal muscle); 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-CDKN1B (Thr157)) Polyclonal Antibody, Unconjugated (bs-5228R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat skeletal muscle); 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-CDKN1B (Thr157)) Polyclonal Antibody, Unconjugated (bs-5228R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control (blue line): MCF7(fixed with 70% ethanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 30 min on ice) Primary Antibody (green line): Rabbit Anti-hospho-CDKN1B (Thr157) antibody (bs-5228R),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.