bs-3483R **[Primary Antibody]**

phospho-CDK2 (Thr160) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1017 **SWISS:** P24941

Target: CDK2 (Thr160)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human CDK2 around the phosphorylation site of Thr160: TY(p-T)HE.

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 is a member of the Ser/Thr protein kinase family. This protein kinase is highly similar to the gene products of S. cerevisiae cdc28, and S. pombe cdc2. It is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and essential for cell cycle G1/S phase transition. This protein associates with and regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). Its activity is also regulated by its protein phosphorylation. Two alternatively spliced variants and multiple transcription initiation sites of this gene have been reported. [provided by RefSeq, Jul 2008].

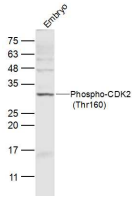
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse (predicted: Rat, Rabbit, Pig, Cow, GuineaPig, Horse)

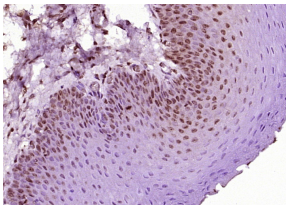
Predicted MW.: 33 kDa

Subcellular Location: Cytoplasm ,Nucleus

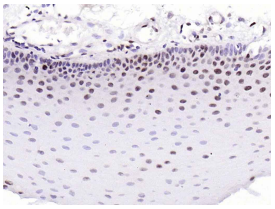
VALIDATION IMAGES



Sample: Embryo (Mouse) Lysate at 40 ug Primary: Anti- Phospho-CDK2 (Thr160) (bs-3483R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 33 kD Observed band size: 33 kD



Paraformaldehyde-fixed, paraffin embedded (human tonsil); 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-CDK2 (Thr160)) Polyclonal Antibody, Unconjugated (bs-3483R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human laryngeal carcinoma); 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-CDK2 (Thr160)) Polyclonal Antibody, Unconjugated (bs-3483R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=9.6]** Mlcochova, Petra, et al. "A G1 - like state allows HIV - 1 to bypass SAMHD1 restriction in macrophages." The EMBO Journal (2017): e201696025. WB ;="Human". 28122869
- **[IF=3.8]** Bang-Hua Zhong. et al. Transcription factor FOXF2 promotes the development and progression of pancreatic cancer by targeting MSI2. ONCOL REP. 2024 Jul;52(1):1-13 WB ;Human. 38847273

- **[IF=2.971]** Kaikai Gong . et al. Aaptamine attenuates the proliferation and progression of non-small cell lung carcinoma. Pharm Biol. 2020;58(1):1044-1054 WB ;Human. 33027592
- **[IF=2.861]** Qian-Qian He. et al. Aaptamine derivatives with CDK2 inhibitory activities from the South China Sea sponge Aaptos suberitoides. 2022 Jan 10 Other ;Other. 35007168