bs-1096R **[Primary Antibody]**

SKP2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6502 **SWISS:** Q13309

Target: SKP2

Immunogen: KLH conjugated synthetic peptide derived from human Skp2: 351-424/424.

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: Substrate recognition component of a SCF(SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins involved in cell cycle progression, signal transduction and transcription. Specifically recognizes phosphorylated CDKN1B/p27kip and is involved in regulation of G1/S transition. Degradation of CDKN1B/p27kip also requires CKS1. Recognizes target proteins ORC1L, CDT1, RBL2, MLL, CDK9, RAG2, FOXO1A, UBP43, and probably MYC, TOB1 and TAL1. Degradation of TAL1 also requires STUB1. Recognizes CDKN1A in association with CCNE1 or CCNE2 and CDK2. [PATHWAY] Protein modification; protein ubiquitination. [SUBUNIT] Part of the SCF(SKP2) complex consisting of CUL1, RBX1, SKP1 and SKP2. Interacts directly with CUL1 and SKP1. Interacts with CKS1. Interacts with the cyclin A-CDK2 complex. Interacts with ORC1L, phosphorylated CDT1, phosphorylated RBL2, ELF4, phosphorylated RAG2, FOXO1A, UBP43, MYC, TOB1, TAL1 and MLL. [SIMILARITY] Contains 1 F-box domain. [SIMILARITY] Contains 8 LRR (leucine-rich) repeats.

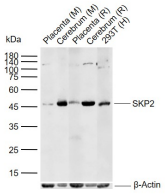
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:100)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Cow)

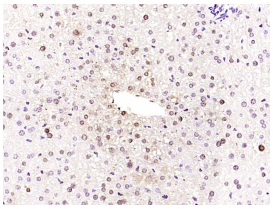
Predicted MW.: 48 kDa

Subcellular Location: Cytoplasm ,Nucleus

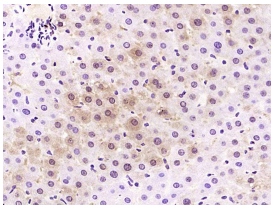
VALIDATION IMAGES



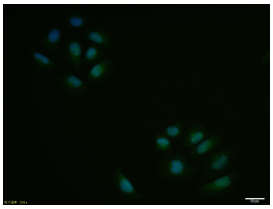
Sample: Lane 1: Mouse Placenta tissue lysates Lane 2: Mouse Cerebrum tissue lysates Lane 3: Rat Placenta tissue lysates Lane 4: Rat Cerebrum tissue lysates Lane 5: Human 293T cell lysates Primary: Anti-SKP2 (bs-1096R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kDa Observed band size: 46 kDa



Paraformaldehyde-fixed, paraffin embedded (mouse liver); 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 (SKP2) Polyclonal Antibody, Unconjugated (bs-1096R) 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 liver); 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 (SKP2) Polyclonal Antibody, Unconjugated (bs-1096R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (SKP2) polyclonal Antibody, Unconjugated (bs-1096R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

SELECTED CITATIONS

- **[IF=5.62]** Yun Zhao. et al. Exercise pretreatment alleviates neuroinflammation and oxidative stress by TFEB-mediated autophagic flux in mice with ischemic stroke. EXP NEUROL. 2023 Mar;:114380 WB ;Mouse. 36914085
- **[IF=4.6]** Zhong Zhiwei. et al. Development of a prognostic model for anoikis and identifies hub genes in hepatocellular carcinoma. SCI REP-UK. 2023 Sep;13(1):1-19 IHC ;Human. 37679418
- **[IF=4.5]** Jiao, Zhang Jiao, et al. "MicroRNA-1285 regulates 17β-estradiol-inhibited immature boar Sertoli cell proliferation via adenosine monophosphate-activated protein kinase activation." Endocrinology (2015): en-2014. WB ;="". 26287402
- **[IF=5.23]** Pan, Yi, et al. "RIG-I inhibits pancreatic β cell proliferation through competitive binding of activated Src." Scientific Reports 6 (2016). WB ;="Mouse". 27349479
- **[IF=4.9]** Hong He. et al. A Tumor Homing Peptide-Linked Arsenic Compound Inhibits Pancreatic Cancer Growth and Enhances the Inhibitory Effect of Gemcitabine. INT J MOL SCI. 2024 Jan;25(21):11366 IHC ;Mouse. 39518921