

bs-0520R**[Primary Antibody]****Bioss**
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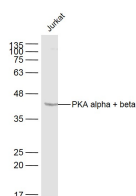
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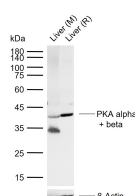
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PKA alpha + beta Rabbit pAb**— DATASHEET —**

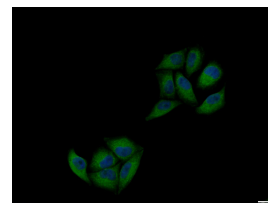
Host: Rabbit Clonality: Polyclonal GeneID: 5566 Target: PKA alpha + beta Immunogen: KLH conjugated synthetic peptide derived from human PRKACA/PRKACB : 17-100/351. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP dependent protein kinase (AMPK), which transduces the signal through phosphorylation of different target proteins. The inactive holoenzyme of AMPK is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits of AMPK have been identified in humans. PKA beta (catalytic subunit) is a member of the Ser/Thr protein kinase family and is a catalytic subunit of AMPK.	Isotype: IgG SWISS: P17612	Applications: WB (1:500-2000) ICC/IF (1:100) Reactivity: Human, Mouse, Rat Predicted MW.: 40 kDa Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus
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— VALIDATION IMAGES —

Sample: Jurkat(Human) Cell Lysate at 40 ug
Primary: Anti-PKA alpha + beta (bs-0520R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kD Observed band size: 40 kD



Sample: Lane 1: Mouse Liver tissue lysates Lane 2: Rat Liver tissue lysates Primary: Anti-PKA alpha + beta (bs-0520R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti- Rabbit IgG at 1/20000 dilution Predicted band size: 40 kDa Observed band size: 40 kDa



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 (PKA alpha + beta) polyclonal Antibody, Unconjugated (bs-0520R) 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=16.6]** Liu Chunxiao. et al. Targeting P2Y14R protects against necroptosis of intestinal epithelial cells through PKA/CREB/RIPK1 axis in ulcerative colitis. NAT COMMUN. 2024 Mar;15(1):1-16 WB ;Mouse,Human. 38453952
- **[IF=14.7]** Chunxiao Liu. et al.Targeting P2Y14R protects against necroptosis of intestinal epithelial cells through PKA/CREB/RIPK1 axis in ulcerative colitis.nature communications.2024 Mar 7;15(1):2083. Western blot ;Mouse. 38453952
- **[IF=8.8]** Jiajun Chen. et al. Integrating UHPLC-MS/MS quantitative analysis and exogenous purine supplementation to

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elucidate the antidepressant mechanism of Chaigui granules by regulating purine metabolism. J PHARM ANAL. 2023 Aug;: WB ;Rat. 10.1016/j.jpha.2023.08.008

- **[IF=6.8]** Zheng Yanyan. et al. Paternal methamphetamine exposure induces higher sensitivity to methamphetamine in male offspring through driving ADRB1 on CaMKII-positive neurons in mPFC. TRANSL PSYCHIAT. 2023 Oct;13(1):1-12 WB ;Mouse. 37857642
- **[IF=6.9]** Huinan Wang. et al. Formation mechanism, prevention of malignant ascites effusion and reduction of intestinal mucosal irritation of natural microemulsion from Euphorbia lathyris Pulveratum. BIOMED PHARMACOTHER. 2024 Sep;178:117253 WB ;Mouse. 39111084