

**bs-3725R****[ Primary Antibody ]****phospho-PKA alpha + beta (Thr198) Rabbit pAb****BioSS**  
**ANTIBODIES**

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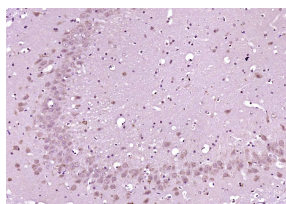
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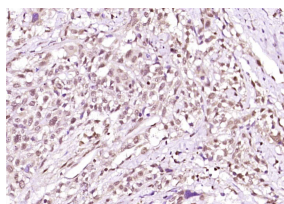
400-901-9800

**— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 5567 <b>Target:</b> PKA alpha + beta (Thr198) <b>Immunogen:</b> KLH conjugated Synthesised phosphopeptide derived from human PRKACB around the phosphorylation site of Thr198: TW(p-T)LC. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 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. <b>Background:</b> cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme 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 have been identified in humans. The protein encoded by this gene is a member of the Ser/Thr protein kinase family and is a catalytic subunit of cAMP-dependent protein kinase. Several alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jun 2011].	<b>Isotype:</b> IgG <b>Applications:</b> IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) <b>Reactivity:</b> Human, Rat (predicted: Mouse, Pig, Cow, Chicken, Dog) <b>Predicted MW.:</b> 40 kDa <b>Subcellular Location:</b> Cell membrane ,Cytoplasm ,Nucleus
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**— VALIDATION IMAGES —**

Paraformaldehyde-fixed, paraffin embedded (rat brain); 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-PKA alpha + beta (Thr198)) Polyclonal Antibody, Unconjugated (bs-3725R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human colon cancer); 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-PKA alpha + beta (Thr198)) Polyclonal Antibody, Unconjugated (bs-3725R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

**— SELECTED CITATIONS —**

- **[IF=4.6]** Ma Dufang. et al. Excessive fat expenditure in MCT-induced heart failure rats is associated with BMAL1/REV-ERB $\alpha$  circadian rhythmic loop disruption. SCI REP-UK. 2024 Apr;14(1):1-18 WB ;Rat. 38584196
- **[IF=4.315]** Ma, Dufang. et al. Astragalus polysaccharide prevents heart failure-induced cachexia by alleviating excessive

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adipose expenditure in white and brown adipose tissue. LIPIDS HEALTH DIS. 2023 Dec;22(1):1-16 WB ;Rat. 36670439