

**bs-9921R****[ Primary Antibody ]****BioSS**  
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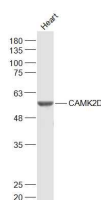
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**CaMKII delta Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 817 <b>Target:</b> CaMKII delta <b>Immunogen:</b> KLH conjugated synthetic peptide derived from Human CAMK2D/CaMKII delta: 271-370/499. <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> The Ca <sup>2+</sup> /calmodulin-dependent protein kinases (CaM kinases) comprise a structurally related subfamily of serine/threonine kinases which include CaMKI, CaMKII and CaMKIV. CaMKII is a ubiquitously expressed serine/threonine protein kinase that is activated by Ca <sup>2+</sup> and calmodulin (CaM) and has been implicated in regulation of the cell cycle and transcription. There are four CaMKII isozymes designated $\alpha$ , $\beta$ , $\gamma$ and $\delta$ , which may or may not be co-expressed in the same tissue type. CaMKIV is stimulated by Ca <sup>2+</sup> and CaM but phosphorylation by a CaMK is also required for full activation. Stimulation of the T cell receptor CD3 signaling complex with an anti-CD3 monoclonal antibody leads to a 10-40 fold increase in CaMKIV activity. An additional kinase, CaMKK, functions to activate CaMKI through the specific phosphorylation of the regulatory threonine residue at position 177.	<b>Isotype:</b> IgG <b>SWISS:</b> Q13557 <b>Applications:</b> WB (1:500-2000) <b>Reactivity:</b> Mouse (predicted: Rat, Pig, Cow) <b>Predicted MW.:</b> 56 kDa <b>Subcellular Location:</b> Cell membrane
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**— VALIDATION IMAGES —**

Sample: Heart (Mouse) Lysate at 40 ug Primary:  
Anti-CAMK2D (bs-9921R) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at  
1/20000 dilution Predicted band size: 56 kD  
Observed band size: 56 kD

**— SELECTED CITATIONS —**

- **[IF=4.8]** Yinjie Zhang. et al. Mechanistic Insights into Suanzaoren Decoction's Improvement of Cardiac Contractile Function in Anxiety-Induced Cardiac Insufficiency. J ETHNOPHARMACOL. 2024 Sep;;118860 IHC,WB ;Mouse. 39341264
- **[IF=4.169]** Cheng, Baixiang. et al. Distinctive Roles of Wnt Signaling in Chondrogenic Differentiation of BMSCs under Coupling of Pressure and Platelet-Rich Fibrin. Tissue Engineering and Regenerative Medicine. 2022 Apr;;1-15 WB ;Rabbit. 35467329
- **[IF=4.319]** Jia Li. et al. Study of the Mechanism of Antiemetic Effect of <em>Lavandula angustifolia</em> Mill. Essential Oil Based on Ca<sup>2+</sup>/CaMKII/ERK1/2 Pathway. DRUG DES DEV THER. 2022 Jul;16:2407-2422 IHC ;Rat.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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- **[IF=2.2]** Yang Yahua. et al. Calcium promoting maturity of oocytes through calcium/calmodulin-dependent protein kinase II of yak (*Bos grunniens*). ITAL J ANIM SCI. 2024 六月 14 IHC,IF ;Yak,Mouse. 10.1080/1828051X.2024.2358869