

bs-0541R**[Primary Antibody]****CAMK2A + CAMK2B + CAMK2D Rabbit pAb****Bioss**
ANTIBODIES

www.bioss.com.cn

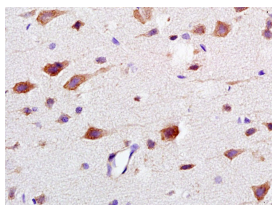
sales@bioss.com.cn

techsupport@bioss.com.cn

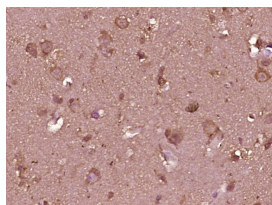
400-901-9800

— DATASHEET —

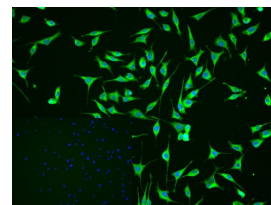
Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500)
Clonality: Polyclonal		IHC-F (1:100-500)
GeneID: 815	SWISS: Q13554	IF (1:100-500)
Target: CAMK2A + CAMK2B + CAMK2D		ICC/IF (1:50)
Immunogen: KLH conjugated synthetic peptide derived from human CaMK2 beta/ gamma/ delta: 1-100/479.		Reactivity: Human, Mouse, Rat
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		Predicted MW.: 53-73 kDa
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.		Subcellular Location: Cell membrane
Background: bs-0541P is one synthetic peptide derived from human CaMK2 beta/ gamma/ delta. The product of this gene belongs to the serine/threonine protein kinase family and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells, the enzyme is composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is a beta chain. It is possible that distinct isoforms of this chain have different cellular localizations and interact differently with calmodulin. Eight transcript variants encoding eight distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008].		

— 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 (CaMK2b) Polyclonal Antibody, Unconjugated (bs-0541R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); 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 (CAMK2A + CAMK2B + CAMK2D) Polyclonal Antibody, Unconjugated (bs-0541R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



4% Paraformaldehyde-fixed SH-SY5Y(H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (CAMK2A + CAMK2B + CAMK2D) polyclonal Antibody, unconjugated (bs-0541R) 1:50, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.

— SELECTED CITATIONS —

- **[IF=3.457]** Li W et al.
Upregulation of MMP-9 and CaMKII prompts cardiac electrophysiological changes that predispose denervated transplanted hearts to arrhythmogenesis after prolonged cold ischemic storage. Biomed Pharmacother. 2019 Feb 20;112:108641. WB ;Rat. 30784925

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

- **[IF=2.088]** Wen Jiang. et al. Hirsutine ameliorates myocardial ischemia-reperfusion injury through improving mitochondrial function via CaMKII pathway. CLIN EXP HYPERTENS. 2023;45(1):Article: 2192444 WB ;Rat. 36951068