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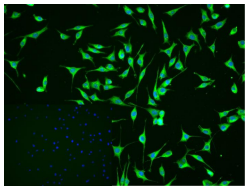
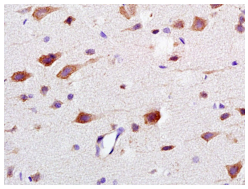
CAMK2A + CAMK2B + CAMK2D Rabbit pAb

Catalog Number:	bs-0541R
Target Protein:	CAMK2A + CAMK2B + CAMK2D
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), ICC/IF (1:50)
Reactivity:	Human, Mouse, Rat
Predicted MW:	53-73 kDa
Entrez Gene:	815
Swiss Prot:	Q13554
Source:	KLH conjugated synthetic peptide derived from human CaMK2 beta/ gamma/ delta: 1-100/479.
Purification:	affinity purified by Protein A
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:	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].

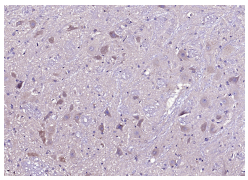
VALIDATION IMAGES



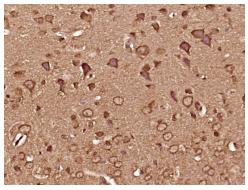
4% Paraformaldehyde-fixed SH-SY5Y(H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (CAMK2A + CAMK2B + CAMK2D) polyclonal Antibody, unconjugated (bs-0541R) 1:50, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-FITC) at 37°C for 90 min, DAPI (blue,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



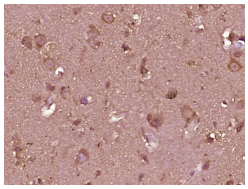
Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CaMK2b) Polyclonal Antibody, Unconjugated (bs-0541R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat cerebellum); 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 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); 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) instructionsand 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) instructionsand DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

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

[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