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## phospho-CaMK2 alpha (Tyr230) Rabbit pAb

Catalog Number: bs-3081R

Target Protein: phospho-CaMK2 alpha (Tyr230)

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (2ug/Test)

Reactivity: Human, Mouse, Rat (predicted:Rabbit, Pig, Sheep, Cow, Chicken, Dog, Horse)

Predicted MW: 54 kDa

Entrez Gene: 815

Swiss Prot: Q13554

Source: KLH conjugated Synthesised phosphopeptide derived from human CaMK2 alpha around the phosphorylation site of Tyr231: GA(p-Y)DF.

Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

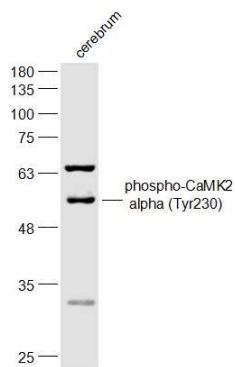
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: bs-0541P is one synthetic peptide derived from human CaMK2 beta/ gamma/ delta.

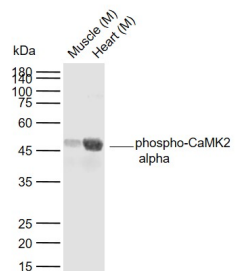
The product of this gene belongs to the serine/threonine protein kinase family and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells, the enzyme is composed of four different chains: 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

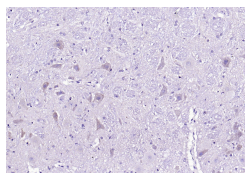
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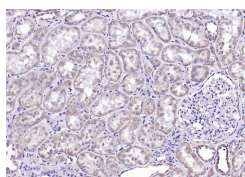
Sample: Cerebrum(Rat)Cell Lysate at 40 ug Primary: Anti-phospho-CaMK2 alpha (Tyr230) (bs-3081R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 54 kD  
Observed band size: 54 kD



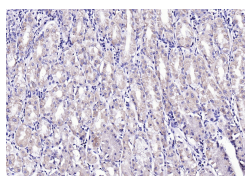
Sample: Lane 1: Mouse Muscle tissue lysates Lane 2: Mouse Heart tissue lysates Primary: Anti-phospho-CaMK2 alpha (Tyr230) (bs-3081R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 54 kDa Observed band size: 50 kDa



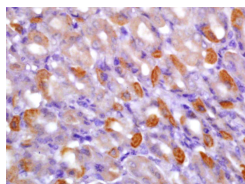
Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (p-CaMK2 alpha(Tyr230)) Polyclonal Antibody, Unconjugated (bs-3081R) 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 kidney ); 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 (p-CaMK2 alpha(Tyr230)) Polyclonal Antibody, Unconjugated (bs-3081R) 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 gastric ); 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 (p-CaMK2 alpha(Tyr230)) Polyclonal Antibody, Unconjugated (bs-3081R) 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 (Mouse stomach); 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 (p-CaMK2 alpha) Polyclonal Antibody, Unconjugated (bs-3081R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=8.679] Qi Sun. et al. MORTALIN-Ca2+ axis drives innate rituximab resistance in diffuse large B-cell lymphoma. CANCER LETT. 2022 Jul;537:215678 WB ; Human . 35447282

[IF=5.8] Hailin Liu. et al. Dexamethasone upregulates macrophage PIEZO1 via SGK1, suppressing inflammation and increasing ROS and

apoptosis. BIOCHEM PHARMACOL. 2024 Apr;222:116050 WB ; Mouse . 38354960

[IF=4.994] He Zhang. et al. Effect of feeding regimen on circadian activity rhythms of food anticipatory by ghrelin hormone in a pig model. 2022 Mar 05 WB ; Pig . 35249475

[IF=3.943] Henrique Ballassini Abdalla et al. Activation of PPAR- $\gamma$  induces macrophage polarization and reduces neutrophil migration mediated by heme oxygenase 1. Int Immunopharmacol. 2020 Jul;84:106565. WB ; Rat . 32388213

[IF=4.3] Shasha Chen. et al. Quercetin alleviates zearalenone-induced apoptosis and necroptosis of porcine renal epithelial cells by inhibiting CaSR/CaMKII signaling pathway. FOOD CHEM TOXICOL. 2023 Nov;:114184 WB ; Pig . 37951344