

bs-3081R**[Primary Antibody]****phospho-CaMK2 alpha (Tyr230) Rabbit pAb****BioSS**
ANTIBODIES

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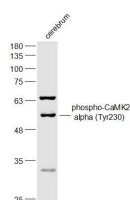
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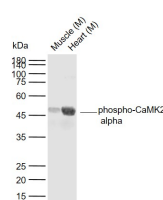
400-901-9800

DATASHEET**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 815**SWISS:** Q13554**Target:** CaMK2 alpha (Tyr230)**Immunogen:** 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**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

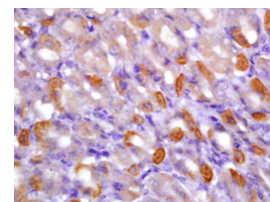
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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].**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**Subcellular Location:** Cell membrane**VALIDATION IMAGES**

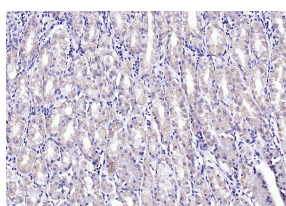
Sample: Cerebrum(Rat)Cell Lysate at 40 ug
 Primary: Anti-phospho-CaMK2 alpha (Tyr230) (bs-3081R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 54 kD Observed band size: 54 kD



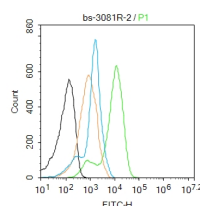
Sample: Lane 1: Mouse Muscle tissue lysates
 Lane 2: Mouse Heart tissue lysates Primary: Anti-phospho-CaMK2 alpha (Tyr230) (bs-3081R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 54 kDa Observed band size: 50 kDa



Paraformaldehyde-fixed, paraffin embedded (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.



Paraformaldehyde-fixed, paraffin embedded



Blank control: K562. Primary Antibody (green)

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

(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.

line): Rabbit Anti-phospho-CaMK2 alpha (Tyr230) antibody (bs-3081R) Dilution: 2ug/Test; Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[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-γ induces macrophage polarization and reduces neutrophil migration mediated by heme oxygenase 1. Int Immunopharmacol. 2020 Jul;84:106565. WB ;Rat. 32388213
- **[IF=4.4]** Kai Tang. et al. Neoandrographolide inhibits mature osteoclast differentiation to alleviate bone loss and treat osteoporosis. FRONTIERS IN PHARMACOLOGY. 2025 Feb 11:16:1466057. Western Blot ;Mouse. 40008134