

**bs-5276R****[ Primary Antibody ]****phospho-CaMK2 alpha (Thr305) Rabbit pAb****BioSS**  
**ANTIBODIES**

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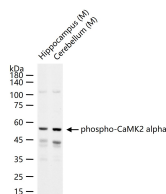
sales@bioss.com.cn

techsupport@bioss.com.cn

400-901-9800

**— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 815 <b>Target:</b> CaMK2 alpha (Thr305) <b>Immunogen:</b> KLH conjugated Synthesised phosphopeptide derived from human CaMK2 alpha around the phosphorylation site of Thr305: IL(p-T)TM. <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> 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].	<b>Isotype:</b> IgG <b>SWISS:</b> Q13554 <b>Applications:</b> <b>WB</b> (1:500-2000) <b>Reactivity:</b> Human, Mouse (predicted: Rat, Sheep, Chicken, Dog) <b>Predicted MW.:</b> 54 kDa <b>Subcellular Location:</b> Cell membrane
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**— VALIDATION IMAGES —**

25 ug total protein per lane of various lysates (see on figure) probed with phospho-CaMK2 alpha (Thr305) polyclonal antibody, unconjugated (bs-5276R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

**— SELECTED CITATIONS —**

- **[IF=4.586]** Natale S et al. Genetic Up-Regulation or Pharmacological Activation of the Na<sup>+</sup>/Ca<sup>2+</sup> Exchanger 1 (NCX1) Enhances Hippocampal-Dependent Contextual and Spatial Learning and Memory. Mol Neurobiol. 2020 Feb 11. WB ;Baby hamster. 32048166