

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### p-CaMKII $\alpha$ (T286) Peptide

Cat No.: BS5009P

#### Background

The Ca<sup>2+</sup>/calmodulin-dependent protein kinases (CaM kinases) comprise a structurally related subfamily of serine/threonine kinases which include CaMKI, CaMKII and CaMKIV. CaMKII is an ubiquitously expressed serine/threonine protein kinase that is activated by Ca<sup>2+</sup> and calmodulin (CaM) and has been implicated in regulation of the cell cycle and transcription. There are four CaMKII isozymes, designated  $\alpha$ ,  $\beta$ ,  $\gamma$  and  $\delta$ , which may or may not be co-expressed in the same tissue type. CaMKII $\alpha$  is autophosphorylated on Thr 286 upon the binding of the Ca<sup>2+</sup>/CaM complex to the autoinhibitory domain of CaMKII. This process is called Ca<sup>2+</sup>/CaM trapping, which is thought to be involved in the synaptic encoding of information.

#### Swiss-Prot

Q9UQM7

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS5009 p-CaMKII $\alpha$  (T286) pAb.

#### Purification & Purity

Synthetic peptide p-CaMKII $\alpha$  (T286). (Note: the amino acid sequence is proprietary). The purity is > 98%.

#### Product

1 mg/ml in DI water.

#### Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

#### Research Use

For research use only, not for use in diagnostic procedure.

Bioworld Technology, Inc.

1660 South Highway 100, Suite 500 St. Louis Park, MN  
55416, USA.

Email: [info@bioworld.com](mailto:info@bioworld.com)

Tel: 6123263284

Fax: 6122933841

Bioworld technology, co, Ltd.

No 9, weidi road Qixia District Nanjing, 210046,  
P, R.China.

Email: [info@biogot.com](mailto:info@biogot.com)

Tel: +86-025-68037686 Fax: +86-025-68035151