

## CaMKII $\beta/\gamma$ (R631) polyclonal antibody

Catalog: BS2052

Host: Rabbit

Reactivity: Human, Mouse, Rat

### 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 coexpressed in the same tissue type. CaMKIV is stimulated by Ca<sup>2+</sup> and CaM but also requires phosphorylation by a CaMK for full activation.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 50~80 kDa

### Swiss-Prot:

Q13555/Q13554

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

IF: 1:50~1:200

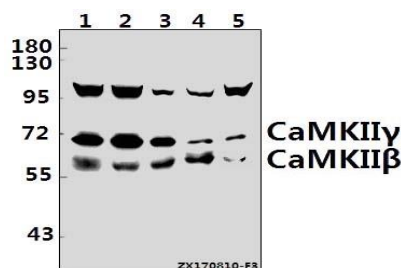
### Storage&Stability:

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

### Specificity:

CaMKII $\beta/\gamma$  (R631) polyclonal antibody detects endogenous levels of CaMKII $\beta$  and CaMKII $\gamma$  protein.

### DATA:



Western blot (WB) analysis of CaMKII $\beta/\gamma$  (R631) pAb at 1:500 dilution

Lane1:U-87MG whole cell lysate(40ug)

Lane2:PC3 whole cell lysate(40ug)

Lane3:A549 whole cell lysate(40ug)

Lane4:H9C2 whole cell lysate(40ug)

Lane5:CT26 whole cell lysate(40ug)

### Note:

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

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