

## CaMKII $\alpha/\delta$ (M281) polyclonal antibody

Catalog: BS3433

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 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.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 50, 60 kDa

### Swiss-Prot:

Q9UQM7/Q13557

### 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

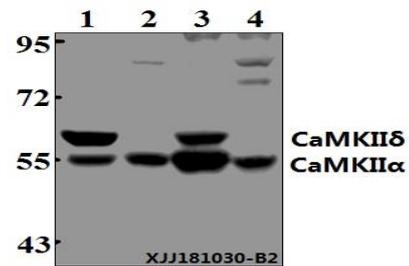
### Storage&Stability:

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

### Specificity:

CaMKII $\alpha/\delta$  (M281) polyclonal antibody detects endogenous levels of CaMKII $\alpha/\delta$  protein.

### DATA:



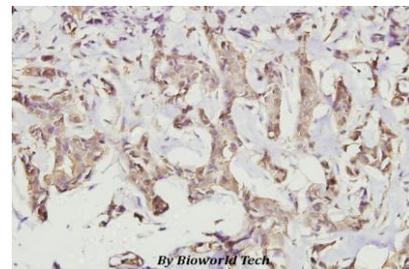
Western blot (WB) analysis of CaMKII $\alpha/\delta$  (M281) polyclonal antibody at 1:500 dilution

Lane1:U-87MG whole cell lysate(40  $\mu$ g)

Lane2:SK-OVCAR3 whole cell lysate(40  $\mu$ g)

Lane3:C6 whole cell lysate(40  $\mu$ g)

Lane4:BV2 whole cell lysate(40  $\mu$ g)



Immunohistochemistry (IHC) analyzes of CaMKII $\alpha/\delta$  (M281) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.

### Note:

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

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