

## MARK1/2/3/4 (G152) polyclonal antibody

Catalog: BS2369

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Microtubule associated proteins regulate the stability of microtubules and control processes such as cell polarity/differentiation, neurite outgrowth, cell division and organelle trafficking. The MARK (MAP/microtubule affinity-regulating kinases) family (MARK1-4) of serine/threonine kinases was identified based on their ability to phosphorylate microtubule-associated proteins (MAPs) including tau, MAP2 and MAP4. MARK proteins phosphorylate MAPs within their microtubule binding domains, causing dissociation of MAPs from microtubules and increased microtubule dynamics. In the case of tau, phosphorylation has been hypothesized to contribute to the formation of neurofibrillary tangles observed in Alzheimer's disease. Overexpression of MARK leads to hyperphosphorylation of MAPs, morphological changes and cell death. The tumor suppressor kinase LKB1 phosphorylates MARK and the closely related AMP-kinases within their T-loops, leading to increased activity.

### Product:

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

### Molecular Weight:

~ 85 kDa

### Swiss-Prot:

Q9P0L2/Q7KZI7/P27448/Q96L34

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific im-

munogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:1000~1:2000

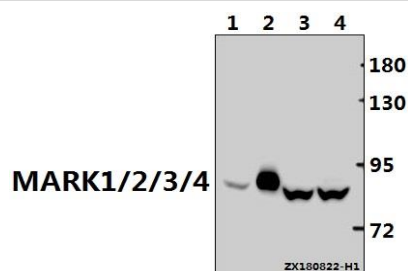
### Storage&Stability:

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

### Specificity:

MARK1/2/3/4 pAb detects endogenous levels of MARK1/2/3/4 protein.

### DATA:



Western blot (WB) analysis of MARK1/2/3/4 (G152) pAb at 1:1000 dilution

Lane1: The Brain tissue lysate of Rat(40ug)

Lane2: The Heart tissue lysate of Mouse(5ug)

Lane3: L02 whole cell lysate(30ug)

Lane4: HEK293T whole cell lysate(30ug)

### Note:

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

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