

## Rabbit MARK2 Polyclonal Antibody | anti-MARK2 antibody

MARK2 Antibody

|                               |                       |                                        |                                                         |
|-------------------------------|-----------------------|----------------------------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA303478</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunofluorescence, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|---------------------------------------------------------|

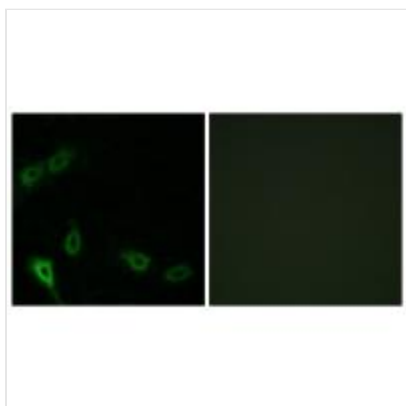
### PRODUCT SYNONYMS

MARK2; Polyclonal Antibody; MARK2 Antibody; EC 2.7.11.1; ELKL motif kinase 1; EMK; EMK1; MAP/microtubule affinity-regulating kinase 2; anti-MARK2 antibody

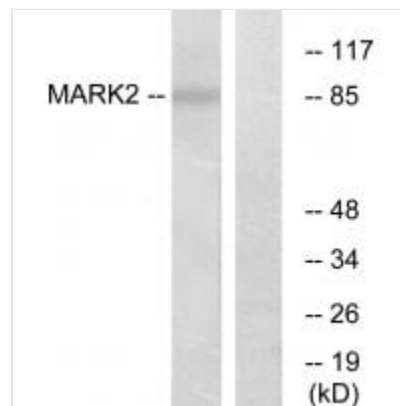
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                    |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                             |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                  |
| Clonality                                       | Polyclonal                                                                                                                                         |
| Specificity                                     | The antibody detects endogenous levels of total MARK2 protein.                                                                                     |
| Purity/Purification                             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                              |
| Form/Format                                     | Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                   | 1.0 mg/ml (varies by lot)                                                                                                                          |
| Sequence Length                                 | 788                                                                                                                                                |
| Applicable Applications for anti-MARK2 antibody | IF (Immunofluorescence), WB (Western Blot)                                                                                                         |
| Immunogen Type                                  | Peptide                                                                                                                                            |
| Immunogen Description                           | Synthesized peptide derived from N-terminal of human MARK2.                                                                                        |
| Target Name                                     | MARK2                                                                                                                                              |
| Preparation and Storage                         | Store at -20 degree C                                                                                                                              |

### IMAGES


**IF (Immunofluorescence)**

Immunofluorescence analysis of A549 cells, using MARK2 antibody.


**WB (Western Blot)**

Western blot analysis of extracts from COS-7 cells, using MARK2 antibody.

## ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-MARK2 antibody | Serine/threonine-protein kinase involved in cell polarity and microtubule dynamics regulation. Phosphorylates CRTC2/TORC2, DCX, HDAC7, KIF13B, MAP2, MAP4, MAPT/TAU, and RAB11FIP2. Plays a key role in cell polarity by phosphorylating the microtubule-associated proteins MAP2, MAP4 and MAPT/TAU at KXGS motifs, causing detachment from microtubules, and their disassembly. Regulates epithelial cell polarity by phosphorylating RAB11FIP2. Involved in the regulation of neuronal migration through its dual activities in regulating cellular polarity and microtubule dynamics, possibly by phosphorylating and regulating DCX. Regulates axogenesis by phosphorylating KIF13B, promoting interaction between KIF13B and 14-3-3 and inhibiting microtubule-dependent accumulation of KIF13B. Also required for neurite outgrowth and establishment of neuronal polarity. Regulates localization and activity of some histone deacetylases by mediating phosphorylation of HDAC7, promoting subsequent interaction between HDAC7 and 14-3-3 and export from the nucleus. Also acts as a positive regulator of the Wnt signaling pathway, probably by mediating phosphorylation of dishevelled proteins (DVL1, DVL2 and/or DVL3). Modulates the developmental decision to build a columnar versus a hepatic epithelial cell apparently by promoting a switch from a direct to a transcytotic mode of apical protein delivery. Essential for the asymmetric development of membrane domains of polarized epithelial cells.Espinosa L., Cytogenet. Cell Genet. 81:278-282(1998).Lizcano J.M., EMBO J. 23:833-843(2004).Taylor T.D., Nature 440:497-500(2006). |
| Product Categories/Family for anti-MARK2 antibody   | Total protein Ab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 254028234                                              |
| NCBI GeneID                      | 2011                                                   |
| NCBI Accession #                 | NP_001034558.2                                         |
| NCBI GenBank Nucleotide #        | NM_001039469.2                                         |
| UniProt Accession #              | Q7KZI7; Q15449; Q15524; Q5XGA3; Q68A18; Q96HB3; Q96RG0 |
| Molecular Weight                 | 81,209 Da                                              |
| NCBI Official Full Name          | serine/threonine-protein kinase MARK2 isoform d        |
| NCBI Official Synonym Full Names | MAP/microtubule affinity-regulating kinase 2           |
| NCBI Official Symbol             | MARK2                                                  |
| NCBI Official Synonym Symbols    | EMK1; EMK-1; PAR-1; Par1b; Par-1b                      |
| NCBI Protein Information         | serine/threonine-protein kinase MARK2                  |
| UniProt Protein Name             | Serine/threonine-protein kinase MARK2                  |
| UniProt Gene Name                | <b>MARK2</b>                                           |
| UniProt Synonym Gene Names       | EMK-1; Par-1b; Par1b                                   |
| UniProt Entry Name               | MARK2_HUMAN                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mark2-antibody-immunofluorescence-western-blot-elisa/303478>