**Product Name:** **KD-Validated MARK2 Recombinant Rabbit Monoclonal Antibody**
**Catalog #:** **KVAb00982**
For research use only.

## Summary

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|---|---|
| **Description** | KO&KD-Validated antibody |
| **Host** | Rabbit |
| **Application** | WB,FCM,ICC |
| **Reactivity** | Human,M |
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | Rabbit IgG |
| **Clonality** | Rabbit mAb |
| **Form** | Liquid |
| **Storage** | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| **Shipping** | Ice bags |
| **Buffer** | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide. |
| **Purification** | Affinity purification |

## Application

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|---|---|
| **Dilution Ratio** | WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000 |
| **Molecular Weight** | Calculated MW: 87.9kDa |

## Antigen Information

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|---|---|
| **Gene Name** | MARK2 |
| **Alternative Names** | Microtubule Affinity Regulating Kinase 2; Par1b; MAP/Microtubule Affinity-Regulating Kinase 2; ELKL Motif Kinase 1; PAR-1B; PAR-1; EMK1; Serine/Threonine-Protein Kinase MARK2; Ser/Thr Protein Kinase PAR-1B; PAR1 Homolog B; EC 2.7.11.1; EMK-1; Serine/Threonine Protein Kinase EMK; Testicular Tissue Protein Li 117; Protein-Serine/Threonine Kinase; Serine/Threonine Kinase; ELKL Motif Kinase; PAR1 Homolog; EC 2.7.11.26; EC 2.7.11; Par-1b |
| **Gene ID** | 2011.0 |
| **SwissProt ID** | Q7KZI7 |
| **Immunogen** | A synthesized peptide derived from human MARK2 |

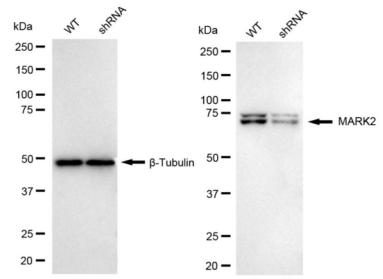
## Background

This gene encodes a member of the Par-1 family of serine/threonine protein kinases. The protein is an important regulator of cell polarity in epithelial and neuronal cells, and also controls the stability of microtubules through phosphorylation and inactivation of several microtubule-associating proteins. The protein localizes to cell membranes. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2009]

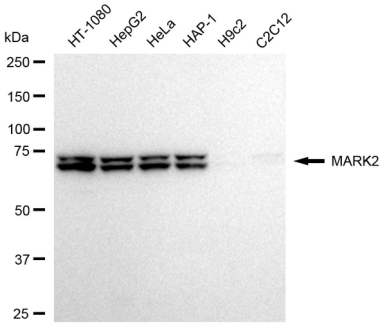
## Research Area

Signal Transduction

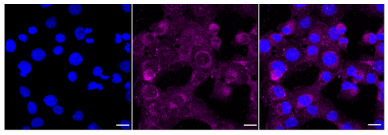
## Image Data



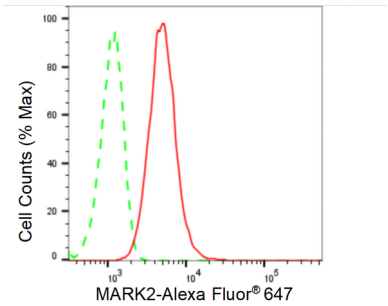

Western blotting analysis using MARK2 antibody (KVAb00982). MARK2 expression in wild type (WT) and MARK2 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with MARK2 antibody (KVAb00982, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.




Western blotting analysis using MARK2 antibody (KVAb00982). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MARK2 antibody (KVAb00982, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with MARK2 antibody (KVAb00982, 1:1,000). Nuclei were stained blue with DAPI; MARK2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.




Flow cytometric analysis of MARK2 expression in HT-1080 cells using MARK2 antibody (KVAb00982, 1:2,000). Green, isotype control; red, MARK2.