



# C-TAK1 Monoclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-mAb-14717                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Applications</b>                | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Gene Name</b>                   | MARK3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human MARK3. AA range:1-50                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Specificity</b>                 | C-TAK1 Monoclonal Antibody detects endogenous levels of C-TAK1 protein.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>                      | Monoclonal, Mouse,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purification</b>                | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Dilution</b>                    | WB 1:500-1:2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>                    | C TAK1;CTAK1;ELKL motif kinase 2;EMK 2;EMK2;KP78;MARK3;PAR1A; Protein kinase STK10;Ser/Thr;C-TAK1;MAP/microtubule affinity-regulating kinase 3;Cdc25C-associated protein kinase 1;EMK-2;Ser/Thr protein kinase PAR-1;Par-1a;Serine/threonine-protein kinase p78                                                                                                                                                                                                                              |
| <b>Observed Band</b>               | 85kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Calculated Molecular Weight</b> | 85kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Cell Pathway</b>                | Cell membrane ; Peripheral membrane protein . Cell projection, dendrite . Cytoplasm .                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Tissue Specificity</b>          | Ubiquitous.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Function</b>                    | catalytic activity:ATP + a protein = ADP + a phosphoprotein.,function:Involved in the specific phosphorylation of microtubule-associated proteins for tau, MAP2 and MAP4. Phosphorylates CDC25C on 'Ser-216'.,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. MARK subfamily.,similarity:Contains 1 KA1 (kinase-associated) domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 UBA domain.,tissue specificity:Ubiquitous., |



## Background

microtubule affinity regulating kinase 3(MARK3) Homo sapiens The protein encoded by this gene is activated by phosphorylation and in turn is involved in the phosphorylation of tau proteins MAP2 and MAP4. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011],

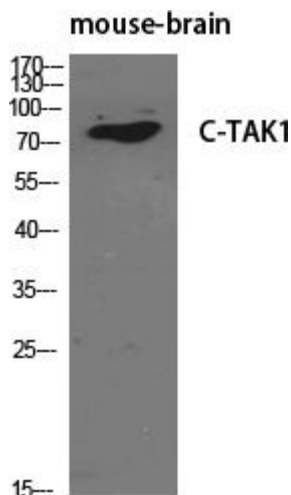
## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using C-TAK1 Monoclonal Antibody