

## Anti-MAPK14/p38 alpha Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

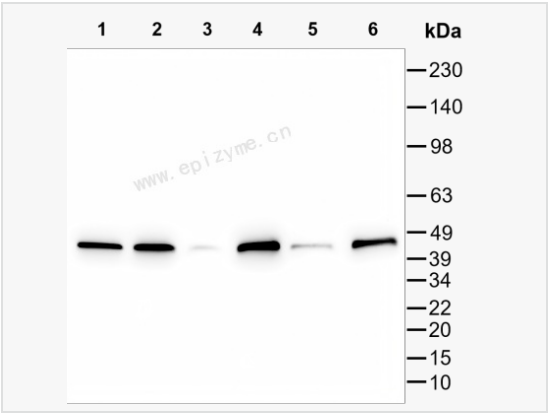
Catalog # M016267

### Product Information

|             |                                                                                                                              |
|-------------|------------------------------------------------------------------------------------------------------------------------------|
| Application | WB, ELISA                                                                                                                    |
| Reactivity  | Human, Mouse, Rat                                                                                                            |
| Dilution    | WB 1:1,000~1:2,000                                                                                                           |
| Host        | Mouse                                                                                                                        |
| Clonality   | Monoclonal                                                                                                                   |
| Clone No.   | 13V99K88                                                                                                                     |
| Isotype     | IgG                                                                                                                          |
| Label       | Unconjugated                                                                                                                 |
| Immunogen   | Recombinant full length protein corresponding to human MAPK14                                                                |
| Format      | Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.                      |
| Storage     | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.  |
| Precautions | Anti-MAPK14/p38 alpha Mouse mAb [13V99K88] is for research use only and not for use in diagnostic or therapeutic procedures. |

### Protein Information

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|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Synonyms          | CSBP; CSBP1; CSBP2; CSPB1; MXI2; SAPK2A; MAPK14; Mitogen-activated protein kinase 14; MAP kinase 14; MAPK 14; Cytokine suppressive anti-inflammatory drug-binding protein; MAP kinase MXI2; MAX-interacting protein 2; Mitogen-activated protein kinase p38 alpha; Stress-activated protein kinase 2a; CSAID-binding protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Calculated MW     | Calculated MW: 41 kDa; Observed MW: 41 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Uniprot ID        | Q16539                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene ID           | 1432                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Background        | The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various environmental stresses and proinflammatory cytokines. The activation requires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by the interaction of MAP3K7IP1/TAB1 protein with this kinase. The substrates of this kinase include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response. Four alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008] |
| Cellular Location | Cytoplasm, Nucleus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Tissue Location   | Brain, heart, placenta, pancreas and skeletal muscle. Expressed to a lesser extent in lung, liver and kidney.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |



Western Blot - Anti-MAPK14/p38 alpha Mouse mAb [13V99K88]  
All lanes: M016267 at 1:2,000 dilution  
Lane 1: Hel ( Human erythroLeukemia suspension cell) whole cell lysates  
Lane 2: Ball-1 (Human B lymphocyte acute leukemia cell) whole cell lysates  
Lane 3: K562(Human chronic myeloid leukemia cell) whole cell lysates  
Lane 4: U87(Human malignant glioblastoma epithelial cell) whole cell lysates  
Lane 5: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates  
Lane 6: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates  
Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution  
Lysates/proteins at 10 µg per lane.  
Predicted band size: 41 kDa  
Observed band size: 41 kDa  
Developed using the ECL technique (Cat. No. SQ201).