

## Rat Mitogen Activated Protein Kinase 14 (MAPK14) ELISA Kit | MAPK14 elisa kit

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CATALOG #  
**AAA136733**

REACTIVITY  
**Rat**

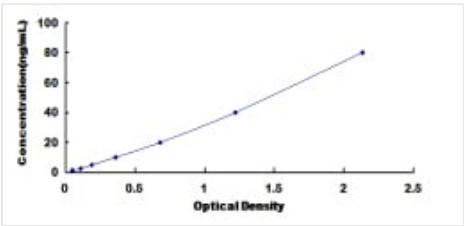
### PRODUCT SYNONYMS

Mitogen Activated Protein Kinase 14 (MAPK14); Rat Mitogen Activated Protein Kinase 14 (MAPK14) ELISA Kit; CSBP1; CSBP2; CSPB1; EXIP; Mxi2; PRKM14; PRKM15; RK; SAPK2A; P38; Mitogen-activated protein kinase p38 alpha; Cytokine suppressive anti-inflammatory drug-binding protein; MAPK14 elisa kit

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                        | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity                                       | This assay has high sensitivity and excellent specificity for detection of Mitogen Activated Protein Kinase 14 (MAPK14).<br>No significant cross-reactivity or interference between Mitogen Activated Protein Kinase 14 (MAPK14) and analogues was observed.                                                                                                                                                                                                                               |
| Sequence Length                                   | 360                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type                                        | Double-antibody Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Samples                                           | Tissue homogenates, Cell lysates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Detection Range                                   | 0.156-10ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sensitivity                                       | 0.061ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Application                                       | Enzyme-linked immunosorbent assay for Antigen Detection.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Intra-assay Precision (Precision within an assay) | 3 samples with low, middle and high level Mitogen Activated Protein Kinase 14 (MAPK14) were tested 20 times on one plate, respectively.                                                                                                                                                                                                                                                                                                                                                    |
| Inter-assay Precision (Precision between assays)  | 3 samples with low, middle and high level Mitogen Activated Protein Kinase 14 (MAPK14) were tested on 3 different plates, 8 replicates in each plate.                                                                                                                                                                                                                                                                                                                                      |
| CV(%) =                                           | SD/meanX100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Intra-Assay                                       | CV<10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Inter-Assay                                       | CV<12%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Preparation and Storage                           | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for MAPK14 elisa kit | The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Mitogen Activated Protein Kinase 14 (MAPK14). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Mitogen Activated Protein Kinase 14 (MAPK14). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Mitogen Activated Protein Kinase 14 (MAPK14), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Mitogen Activated Protein Kinase 14 (MAPK14) in the samples is then determined by comparing the O.D. of the samples to the standard curve. |
| Product Categories/Family for MAPK14 elisa kit   | Signal transduction; Enzyme & Kinase; Tumor immunity; Infection immunity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 62461582                                                                                            |
| NCBI GeneID                      | 81649                                                                                               |
| NCBI Accession #                 | NP_112282.2                                                                                         |
| NCBI GenBank Nucleotide #        | NM_031020.2                                                                                         |
| UniProt Accession #              | P70618; O08594; Q99MG4                                                                              |
| Molecular Weight                 | 41,521 Da                                                                                           |
| NCBI Official Full Name          | mitogen-activated protein kinase 14                                                                 |
| NCBI Official Synonym Full Names | mitogen activated protein kinase 14                                                                 |
| NCBI Official Symbol             | Mapk14                                                                                              |
| NCBI Official Synonym Symbols    | RK; Hog; p38; CRK1; CSBP; Exip; Mxi2; CSPB1; Csbp1; Csbp2; Prkm14; Prkm15; Sapk2A; p38Hog; p38alpha |
| NCBI Protein Information         | mitogen-activated protein kinase 14                                                                 |
| UniProt Protein Name             | Mitogen-activated protein kinase 14                                                                 |
| UniProt Gene Name                | Mapk14                                                                                              |
| UniProt Synonym Gene Names       | Csbp1; Csbp2; MAP kinase 14; MAPK 14; MAP kinase p38 alpha                                          |
| UniProt Entry Name               | MK14_RAT                                                                                            |

**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.