

## Human Mitogen-Activated Protein Kinase 3 (MAPK3) ELISA Kit | MAPK3 elisa kit

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CATALOG #  
**AAA331880**

REACTIVITY  
**Human**

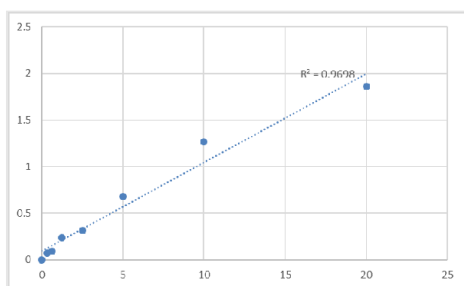
### PRODUCT SYNONYMS

Mitogen-Activated Protein Kinase 3 (MAPK3); Human Mitogen-Activated Protein Kinase 3 (MAPK3) ELISA Kit; MAPK3; ERK1; HS44KDAP; HUMKER1A; MGC20180; P44ERK1; P44MAPK; PRKM3; OTTHUMP00000174538; extracellular signal-regulated kinase 1; extracellular signal-related kinase 1; MAPK3 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Human Mitogen-activated protein kinase 3 (MAPK3) ELISA Kit has high sensitivity and excellent specificity for detection of Human MAPK3. No significant cross-reactivity or interference between Human MAPK3 and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Sequence Length         | 357                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### IMAGES



**Standard Curve (Sample)**

Fig.1. Human Mitogen-activated protein kinase 3 (MAPK3) Standard Curve.

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for MAPK3 elisa kit | <p>Description: This Human Mitogen-activated protein kinase 3 (MAPK3) ELISA Kit employs a two-site sandwich ELISA to quantitate MAPK3 in samples. An antibody specific for MAPK3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MAPK3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAPK3 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MAPK3 bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: Mitogen-activated protein kinase 3 is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), 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. The activation of this kinase requires its phosphorylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the stimulated cells, where it phosphorylates nuclear targets. Two alternatively spliced transcript variants encoding the same protein, but differing in the UTRs, have been reported for this gene.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------|
| NCBI GI #                        | 91718897                                                                           |
| NCBI GeneID                      | 5595                                                                               |
| NCBI Accession #                 | NP_001035145.1                                                                     |
| NCBI GenBank Nucleotide #        | NP_001035145.1                                                                     |
| UniProt Accession #              | P27361                                                                             |
| NCBI Official Full Name          | mitogen-activated protein kinase 3 isoform 2                                       |
| NCBI Official Synonym Full Names | mitogen-activated protein kinase 3                                                 |
| NCBI Official Symbol             | MAPK3                                                                              |
| NCBI Official Synonym Symbols    | ERK1; ERT2; ERK-1; PRKM3; P44ERK1; P44MAPK; HS44KDAP; HUMKER1A; p44-ERK1; p44-MAPK |
| NCBI Protein Information         | mitogen-activated protein kinase 3                                                 |
| UniProt Protein Name             | Mitogen-activated protein kinase 3                                                 |
| UniProt Gene Name                | MAPK3                                                                              |
| UniProt Synonym Gene Names       | ERK1; PRKM3; MAP kinase 3; MAPK 3; ERK-1; p44-MAPK                                 |
| UniProt Entry Name               | MK03_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.