



# Recombinant Rat Mitogen-activated protein kinase 1 (Mapk1)

|                          |  |
|--------------------------|--|
| <b>Product Code</b>      | CSB-MP013448RA   |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.  |
| <b>Uniprot No.</b>       | P63086   |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Rattus norvegicus (Rat)  |
| <b>Purity</b>            | >85% (SDS-PAGE)  |
| <b>Sequence</b>          | AAAAAAGPE MVRGQVFDVG PRYTNLSYIG EGAYGMVCSA YDNLNKVRVA<br>IKKISPFHQ TYCQRTLREI KILLRFRHEN IIGINDIIRA PTIEQMKDVI<br>IVQDLMETDL YKLLKTQHLS NDHICYFLYQ ILRGLKYIHS ANVLHRDLKP<br>SNLLNTTCD LKICDFGLAR VADPDHDHTG FLTEYVATRW YRAPEIMLNS<br>KGYTKSIDIW SVGCILAEML SNRPIFPKGH YLDQLNHILG ILGSPSQEDL<br>NCIINLKARN YLLSLPHKNK VPWNRLFPNA DSKALDLLDK MLTFNPHKRI<br>EVEQALAHPY LEQYYDPSDE PIAEAPFKFD MELDDLPEK LKELIFEETA<br>RFQPGYRS   |
| <b>Source</b>            | Mammalian cell   |
| <b>Target Names</b>      | Mapk1  |
| <b>Protein Names</b>     | Recommended name: Mitogen-activated protein kinase 1 Short name= MAP kinase 1 Short name= MAPK 1 EC= 2.7.11.24 Alternative name(s): ERT1 Extracellular signal-regulated kinase 2 Short name= ERK-2 MAP kinase isofo  |
| <b>Expression Region</b> | 2-358  |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.  |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.  |
| <b>Protein Length</b>    | Full Length of Mature Protein  |
| <b>Target Details</b>    | This protein 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. |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final   |



concentration of glycerol is 50%. Customers could use it as reference.

### Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.