

**Datasheet for 009-001-GQ9****ERK2 hu recomb protein****Overview**

|                      |                                              |
|----------------------|----------------------------------------------|
| <b>Description:</b>  | ERK2 human recombinant protein - 009-001-GQ9 |
| <b>Item No.:</b>     | 009-001-GQ9                                  |
| <b>Size:</b>         | 10 µg                                        |
| <b>Applications:</b> | SDS-PAGE                                     |
| <b>Origin:</b>       | Human                                        |
| <b>Expressed in:</b> | Sf9 cells                                    |

**Product Details**

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>        | ERK2 recombinant protein was produced in Sf9 cells. Mitogen activated protein kinase 1, also known as MAPK1, ERK, or ERK2, is an integral component of the MAP kinase cascade that regulates cell growth and differentiation. ERK1 and ERK2 are activated by MEK1 and MEK2 in the B-raf signaling pathway resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Human ERK1 and ERK2 are 84% identical in sequence and share common functionality in cells. Recombinant ERK2 protein is ideal for investigators involved in Neuroscience, Cell Signaling and Cancer Research. |
| <b>Synonyms:</b>          | MAPK1, ERK, ERK-2, ERK2, MAPK2, P42MAPK, PRKM1, PRKM2, ERK-2 recombinant protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species of Origin:</b> | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Expressed in:</b>      | Sf9 cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Type:</b>              | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**Target Details**

|                            |                                                                                                                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>          | MAPK1                                                                                                                                                                                                  |
| <b>Purity/Specificity:</b> | ERK2 is a recombinant protein containing a polyhistidine tag expressed in Sf9. Analysis by SDS-PAGE resulted in a pattern consistent with purified ERK2 and was estimated to be greater than 90% pure. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li><a href="#">UniProtKB - P28482</a></li></ul>                                                                                                                     |

## Application Details

|                             |                                                                                                                                                                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | SDS-PAGE                                                                                                                                                                                                                                         |
| <b>Application Note:</b>    | Human ERK2 recombinant protein has been tested in SDS-Page and is suitable as a control for polyclonal or monoclonal anti-ERK2 in immunological assays. For western blot use at 50 ng or less. For other assays concentration is user optimized. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                  |
| <b>WB:</b>                  | 50ng                                                                                                                                                                                                                                             |

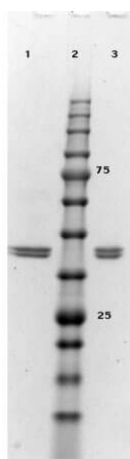
## Formulation

|                        |                           |
|------------------------|---------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered) |
| <b>Stabilizer:</b>     | None                      |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Dry Ice                                                                                                                                                                                                                                       |
| <b>Storage Condition:</b>  | Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                         |

## Images



### SDS-PAGE

SDS-PAGE results of ERK2 Recombinant Protein. Lane 1: reduced ERK2 protein. Lane 2: Opal Prestained Molecular Weight Ladder (p/n MB-210-0500). Lane 3: non-reduced ERK2 protein. Load: 1µg. 4-20% Lonza SDS-PAGE; Coomassie Stained; BioRad ChemiDoc Imaged.

## Disclaimer

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