

Datasheet for 009-001-GQ8**ERK1 hu recomb protein****Overview**

Description:	ERK1 human recombinant protein - 009-001-GQ8
Item No.:	009-001-GQ8
Size:	10 µg
Applications:	SDS-PAGE
Origin:	Human
Expressed in:	Sf9 cells

Product Details

Background:	ERK1 recombinant protein was produced in Sf9 cells. Mitogen activated protein kinase 3, also known as MAPK3, ERK, or ERK1, 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 ERK1 protein is ideal for investigators involved in Neuroscience, Cell Signaling and Cancer Research.
Synonyms:	MAPK3, ERK, ERK1, PRKM3, ERK-1 recombinant protein
Species of Origin:	Human
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	MAPK3
Purity/Specificity:	ERK1 is a recombinant protein containing a polyhistidine tag expressed in Sf9. Analysis by SDS-PAGE resulted in a pattern consistent with purified ERK1 and was estimated to be greater than 90% pure.
Relevant Links:	UniProtKB - P27361

Application Details

Tested Applications:	SDS-PAGE
Application Note:	Human ERK1 recombinant protein has been tested in SDS-Page and is suitable as a control for polyclonal or monoclonal anti-ERK1 in immunological assays. For western blot use at 50 ng or less. For other assays concentration is user optimized.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	50ng

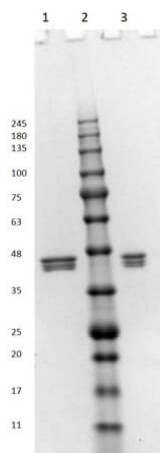
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1mg/ml
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

**SDS-PAGE**

SDS PAGE Results of ERK1 human recombinant protein.

Lane 1: ERK1 rec protein Reduced 1X. Lane 2: Opal Prestained Molecular Weight Markers (p/n MB-210-0500).

Lane 3: ERK1 rec protein Non-Reduced 1X. 4-20% Gel, Coomassie Stained.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.