

Datasheet for ABIN5624589 ERK1 Protein



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Overview

Quantity:	10 µg
Target:	ERK1 (MAPK3)
Origin:	Human
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	ERK1 human recombinant protein
Characteristics:	MAPK3, ERK, ERK1, PRKM3, ERK-1 recombinant protein
Purification:	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.
Sterility:	Sterile filtered

Target Details

Target:	ERK1 (MAPK3)
Alternative Name:	MAPK3 (MAPK3 Products)
Background:	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

Target Details

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.

UniProt: [P27361](#)

Pathways: [MAPK Signaling](#), [RTK Signaling](#), [Interferon-gamma Pathway](#), [Fc-epsilon Receptor Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Response to Growth Hormone Stimulus](#), [Activation of Innate immune Response](#), [Cellular Response to Molecule of Bacterial Origin](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [Toll-Like Receptors Cascades](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Signaling of Hepatocyte Growth Factor Receptor](#), [VEGFR1 Specific Signals](#), [S100 Proteins](#)

Application Details

Application Notes: 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.

Western Blot Dilution: 50 ng

Other: Dot Blot

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Storage: 4 °C, -20 °C

Storage Comment: 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.

Expiry Date: 12 months