

Datasheet for 600-401-GP0**ERK1 N-Term Antibody****Overview**

Description:	Anti-ERK1 (RABBIT) Antibody - 600-401-GP0
Item No.:	600-401-GP0
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	ERK1 antibodies detect the ERK1 isoform. 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. Anti-ERK1 antibody is ideal for investigators involved in Neuroscience, Cell Signaling and Cancer Research.
Synonyms:	rabbit anti-ERK-1 Antibody, MAPK3, ERK 1, ERK1, PRKM3, Mitogen-activated protein kinase 3, MAP kinase 3, MAPK 3, ERT2, Extracellular signal-regulated kinase 1, Insulin-stimulated MAP2 kinase, MAP kinase isoform p44, p44-MAPK, microtubule-associated protein 2 kinase, p44-ERK1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	MAPK3
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ERK1 Antibody was produced in rabbits by repeated immunizations with synthetic peptide corresponding to amino acid residues near the N-terminus conjugated to KLH.

Purity/Specificity: This affinity purified antibody is directed against human ERK1 protein. Anti-ERK1 antibody was prepared from monospecific antiserum by immunoaffinity chromatography using synthetic peptide coupled to agarose beads followed by cross adsorption to remove any unwanted reactivity. Cross reactivity is expected to occur with human, mouse and rat based on sequence identity of the peptide immunogen. This antibody does not react with the ERK2 isoform.

Relevant Links:

- [UniProtKB - P27361](#)

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-ERK 1 (RABBIT) antibody has been tested in ELISA and Western Blotting. Specific conditions of reactivity should be optimized by the end user. Expect a band of approximately 43 kDa.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	5.0 ug/mL
WB:	1.0 ug/mL

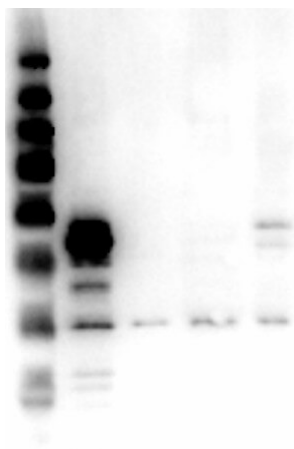
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
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

**Western Blot**

Western Blot of Rabbit Anti-ERK1 N-Term Antibody. Lane 1: Molecular weight marker. Lane 2: ERK1 double mutant WC Lysate. Lane 3: ERK2 protein. Lane 4: Mouse Brain WC Lysate (p/n W10-000-T004). Lane 5: HEK293 WC Lysate (p/n W09-000-365). Load: 10ng lysate or 50ng protein. Blocking: Universal Blocking Buffer (p/n MB-073) for 30 min RT. Primary antibody: Anti-ERK1 N-Term at 1 μ g/mL in MB-073 overnight at 4°C. Secondary antibody: Goat anti-Rabbit HRP (p/n 611-103-122) 1:40,000 in buffer (p/n MB-073) for 30 min at RT. Expect: ~43kDa.

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.