

Datasheet for 200-301-GQ1**ERK2 Internal Antibody****Overview**

Description:	Anti-ERK2 (MOUSE) Monoclonal Antibody - 200-301-GQ1
Item No.:	200-301-GQ1
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	ERK2 antibodies detect the ERK2 isoform. 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. Anti-ERK2 antibody is ideal for investigators involved in Neuroscience, Cell Signaling and Cancer Research.
Synonyms:	mouse anti-ERK2 antibody, MAPK1, ERK, ERK-2, ERK2, MAPK2, P42MAPK, PRKM1, PRKM2, ERK-2 Antibody
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	3H9.A1.A8
Format:	IgG

Target Details

Gene Name:	MAPK1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-ERK2 Monoclonal Antibody was produced in mice by repeated immunizations with synthetic peptide corresponding to amino acid residues near an internal region of ERK2 conjugated to KLH.
Purity/Specificity:	This protein A purified mouse monoclonal antibody reacts specifically with human ERK2. Anti-ERK2 is purified from tissue culture supernatant by protein A purification. 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 ERK1 isoform.
Relevant Links:	• UniProtKB - P28482

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-ERK 2 (MOUSE) antibody has been tested by ELISA and Western Blotting. Specific conditions of reactivity should be optimized by the end user. Expect a band of approximately 41 kDa.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:40,000
WB:	1µg/mL

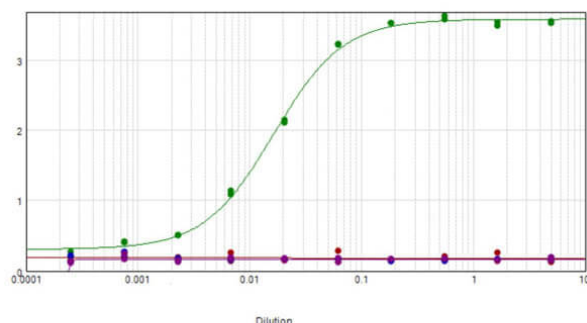
Formulation

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

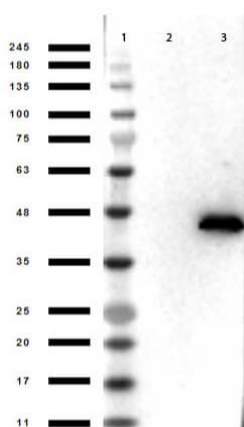
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Expiration:	Expiration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

Images



ELISA

ELISA results of purified Mouse Anti-ERK2 (internal) Monoclonal Antibody tested against BSA-conjugated peptide of immunizing peptide ERK2 internal sequence (green line), as well as ERK2 c-term, ERK1 c-term, and ERK1 n-term. Each well was coated in duplicate with 0.1µg of conjugate. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using Blocking buffer (p/n MB-060-1000), Rb-Anti-Ms IgG HRP conjugate (p/n 610-403-C46), and TMB substrate (p/n TMBE-1000).



Western Blot

Western Blot of Mouse anti-ERK2 Antibody. Lane 1: Opal Pre-Stained Molecular Weight Ladder (p/n MB-210-0500). Lane 2: ERK1 50ng. Lane 3: ERK2 50ng. Primary Antibody: Anti-ERK2 (internal) Monoclonal Antibody at 1µg/mL. Secondary Antibody: Rabbit anti-Mouse IgG HRP (p/n 610-403-C46) at 1:40,000. Blocking Buffer: BlockOut (p/n MB-073) for 30 min at RT. Expect: ~41kDa seen in lane 3 only.

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.