

Datasheet for 600-401-C76**ERK-MAPK phospho T202/phospho Y204 Antibody****Overview**

Description:	Anti-ERK/MAPK pT202/pY204 (Rabbit) Antibody - 600-401-C76
Item No.:	600-401-C76
Size:	100 µL
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Anti-ERK/MAPK pT202/pY204 Antibody detects ERK/MAPK which is an integral component of cellular signaling during mitogenesis and differentiation of mitotic cells and also is thought to play a key role in learning and memory. The activity of this kinase is regulated by dual phosphorylation at Thr202 and Tyr204. Anti-ERK/MAPK pT202/pY204 Antibody is ideal for investigators involved in Cell Signaling and Cancer Research.
Synonyms:	Mitogen-activated protein kinase 1, MAP kinase 1, MAPK1, ERT1, Extracellular signal-regulated kinase 2, MAP kinase isoform p42
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	MAPK1/2
Reactivity:	Human, Mouse, Rat
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ERK/MAPK Antibody was produced in rabbit by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Thr202/Tyr204 conjugated to KLH.

Purity/Specificity: ERK/MAPK pT202/pY204 antibody is directed against human ERK/MAPK. ERK/MAPK pT202/pY204 antibodies are affinity purified from monospecific antiserum by immunoaffinity purification. Immunolabeling is blocked by the phosphopeptide used as antigen but not by the corresponding dephosphopeptide. The immunolabeling is completely eliminated by lambda-phosphatase. Reactivity from the following species based on 100% sequence homology: bovine, canine, chicken, mouse, non-human primates, Xenopus and zebra fish.

Relevant Links:

- [NCBI - NP_446294.1](#)
- [UniProtKB - P63086](#)
- [GeneID - 116590](#)

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-ERK/MAPK pT202/pY204 (Rabbit) Antibody is tested for use in Western Blotting and IHC. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 42-44 kDa in size corresponding to ERK/MAPK phosphorylated at Thr202 and Tyr204.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	1:500
WB:	1:1000

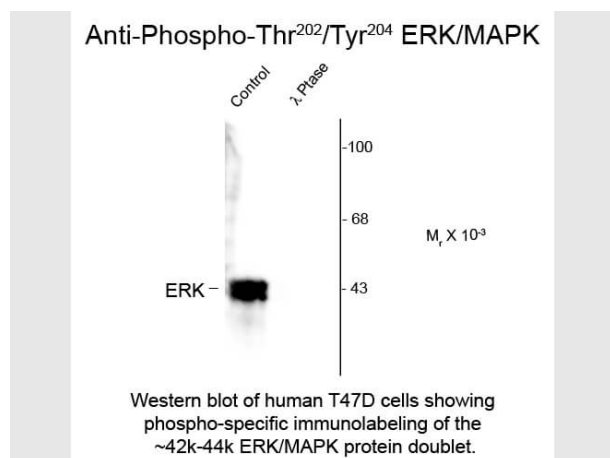
Formulation

Physical State:	Liquid
Concentration:	Titred value sufficient to run approximately 10 mini blots.
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

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-ERK-MAPK Thr202-Tyr204 Antibody. Lane 1: human T47D cell lysates. Lane 2: human T47D cell lysates incubated in λ -Ptase (1200 units for 30 min). Load: 10 μ g per lane. Primary antibody: ERK-MAPK Thr202-Tyr204 antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~42-44kDa for ERK/MAPK protein phosphorylated at Thr202 and Tyr204. Other band(s): none.

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.