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Anti-MAPK1/3 Antibody Picoband® Fluoro594 Conjugated

Catalog Number: PA1049-Fluoro594

About MAPK1

MAPK1 (ERK2) shares high homology with MAPK3 (ERK1). MAP kinase phosphatase as a locus of flexibility in a mitogen-activated protein kinase signaling network. Mitogen-activated protein (MAP) kinases [also known as Erks] have been established to function as important mediators of signal transduction by growth factor receptors. ERK1/ERK2-dependent activation of endogenous ribosomal transcription, while inactivation of ERK1/ERK2 causes an equally immediate reversion to the basal transcription level. ERK1/ERK2 was found to phosphorylate the architectural transcription factor UBF at amino acids 117 and 201 within HMG boxes 1 and 2, preventing their interaction with DNA. Mutation of these sites inhibited transcription activation and abrogated the transcriptional response to ERK1/ERK2.

Overview

Product Name	Anti-MAPK1/3 Antibody Picoband® Fluoro594 Conjugated
Reactive Species	Human, Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (Flow Cytometry, IF, ICC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3.
Storage Instructions	At -20˚C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P28482

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human MAPK1/3, identical to the related rat and mouse sequences.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro594 Excitation Wavelength: 593 nm Emission Wavelength: 618 nm

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Suggested Dilutions	Optimal dilutions should be determined by end users.

4 Publications Citing This Product

1. PubMed ID: 21769431, Sang J, Chen Y, Tao Y. Mol Med Rep. 2011 Nov-Dec;4(6):1163-7. Doi: 10.3892/Mmr.2011.535. Epub 2011 Jul 15. Nitric Oxide Inhibits Gastric Cancer Cell Growth Through The Modulation Of The Akt Pathway.

2. PubMed ID: 28193911, eIF3i activity is critical for endothelial cells in tumor induced angiogenesis through regulating VEGFR and ERK translation

3. PubMed ID: 26097571, Li Xl, Chen Xq, Zhang Mn, Chen N, Nie L, Xu M, Gong J, Shen Pf, Su Zz, Weng X, Tan Jy, Zhao T, Zeng H, Zhou Q. Int J Clin Exp Pathol. 2015 Apr 1;8(4):3871-81. Ecollection 2015. Sox9 Was Involved In Tkis Resistance In Renal Cell Carcinoma Via Raf/M...

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Anti-MAPK1/3 Antibody - Fluoro594

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