

## Anti-ERK1 Antibody (PThr202 + PTyr204)

Rabbit Anti-Human ERK1 (pThr202 + pTyr204) Polyclonal  
Catalog No. SPC-973



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### Overview

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#### Product Name

ERK1 Antibody (pThr202 + pTyr204)

#### Description

Rabbit Anti-Human ERK1 (pThr202 + pTyr204) Polyclonal

#### Species Reactivity

Human

#### Applications

WB, AM

#### Antibody Dilution

WB (1:250); optimal dilutions for assays should be determined by the user.

#### Host Species

Rabbit

#### Immunogen Species

Human

#### Immunogen

A phospho-specific peptide corresponding to residues surrounding Thr202 and Tyr204 of human ERK1 (AA201-207)

#### Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

### Properties

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#### Storage Buffer

PBS pH7.4, 50% glycerol, 0.025% Thimerosal

#### Storage Temperature

-20°C

#### Shipping Temperature

Blue Ice or 4°C

#### Purification

Peptide Affinity Purified

#### Clonality

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Polyclonal

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### Specificity

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Detects 43.136 kDa.

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### Cite This Product

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Rabbit Anti-Human ERK1 (pThr202 + pTyr204) Polyclonal (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPC-973)

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### Certificate Of Analysis

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A 1:250 dilution of SPC-973 was sufficient for detection of ERK1 (pThr202 + pTyr204) in 10 µg of HeLa cell lysate by ECL immunoblot analysis using goat anti-rabbit IgG:HRP as the secondary antibody.

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## Biological Description

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### Alternative Names

ERT2 Antibody, Extracellular Signal Regulated Kinase 1 Antibody, HGNC6877 Antibody, HS44KDAP Antibody, HUMKER1A Antibody, Insulin Stimulated MAP2 Kinase Antibody, MAP kinase 1 Antibody, MAP kinase 3 Antibody, MAP Kinase Antibody, MAP kinase isoform p44 Antibody, ERK1 Antibody, MAPK 1 Antibody, MAPK 3 Antibody, MAPK Antibody, MAPK1 Antibody, MGC20180 Antibody, Microtubule Associated Protein 2 Kinase Antibody, Mitogen Activated Protein Kinase 3 Antibody, MK03\_HUMAN Antibody, OTTHUMP00000174538 Antibody, OTTHUMP00000174541 Antibody, p44 ERK1 Antibody, p44 MAPK Antibody, P44ERK1 Antibody, PRKM 3 Antibody, PRKM3 Antibody, Protein Kinase Mitogen Activated 3 Antibody

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### Cellular Localization

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Cytoplasm, Nucleus

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### Accession Number

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NP\_002737

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### Gene ID

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5595

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### Swiss Prot

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P27361

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### Scientific Background

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ERK1 or MAPK3 is ubiquitously expressed protein serine/threonine kinase involved in regulating cellular differentiation and proliferation in response to extracellular mitogens or growth factors. MAPK3 is activated by upstream signalling by monomeric G-proteins. MAPK3 activation leads to its translocation from the cytosol to the nucleus where it can target substrate proteins involved in cell cycle regulation; Cyclin D1, suppression of apoptosis; BCL2 and BAD, tumour suppression; p53, cell migration; PAI-1, and MHCII mediated immune response; PPARγ1. Dysfunction of MAPK3 expression and activity has been observed in a variety of cancers. Predominantly overexpression of MAPK3 or constitutive activation has been observed in cancer cell lines. Activation of MAPK3 does not appear to be due to mutations in the protein itself but rather aberrant signalling in upstream factors including Raf, Ras and epidermal growth factor receptor. MAPK3 may also have a role in promoting metastasis in invasive tumours.

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## Product Images

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Currently there are no images for this product

## Product Citations (0)

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Currently there are no citations for this product.

## Reviews

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There are no reviews yet.