

## ERK 1/2 (phospho Tyr222/205) rabbit pAb

Cat No.: ES1441

For research use only

## Overview

Product Name ERK 1/2 (phospho Tyr222/205) rabbit pAb

Host species Rabbit

**Applications** IF;WB;IHC;ELISA **Species Cross-Reactivity** Human;Mouse;Rat

**Recommended dilutions** IF: 1:50-200 WB 1:500-2000, IHC 1:50-300 IHC

1:50-300

**Immunogen** Synthesized phospho-peptide around the

phosphorylation site of human ERK 1/2 (phospho

Tyr222/205)

**Specificity** Phospho-ERK 1/2 (Y222/205) Polyclonal Antibody

detects endogenous levels of ERK 1/2 protein only

when phosphorylated at Y222/205.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

**Storage** Store at  $-20^{\circ}$ C. Avoid repeated freeze-thaw cycles.

Protein Name Mitogen-activated protein kinase 1

Gene Name MAPK1/MAPK3

**Cellular localization** Cytoplasm, cytoskeleton, spindle. Nucleus.

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm . Membrane, caveola . Cell junction, focal adhesion . Associated

with the spindle during prometaphase and metaphase (By similarity). PEA15-binding and phosphorylated DAPK1 promote its cytoplasmic retention. Phosphorylation at Ser- 246 and Ser-248 as well as autophosphorylation at Thr-190 promote

nuclear localization. .

**Purification** The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

ClonalityPolyclonalConcentration1 mg/mlObserved band44kD



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Human Gene ID
Human Swiss-Prot Number
Alternative Names

**Background** 

5594/5595 P28482/P27361

MAPK1; ERK2; PRKM1; PRKM2; Mitogen-activated protein kinase 1; MAP kinase 1; MAPK 1; ERT1; Extracellular signal-regulated kinase 2; ERK-2; MAP kinase isoform p42; p42-MAPK; Mitogen-activated protein kinase 2; MAP kinase 2; MAPK 2; MAPK3; ER This gene encodes a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The activation of this kinase requires its phosphorylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the stimulated cells, where it phosphorylates nuclear targets. One study also suggests that this protein acts as a transcriptional repressor independent of its kinase activity. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Two alternatively spliced transcript variants encoding the same protein, but differing in the UTRs, have been reporte

