

## Anti-Phospho-ERK1/2 (Thr202, Tyr204) Antibody (4P145)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4P145
Purification:	Protein A

## Applications

Verified Activity:	<p>1. Western blot analysis of extracts from serum-starved Hela, untreated (-) or treated with Calyculin A (100 nM, 30 min; +), using Phospho-p44/42 MAPK (ERK1/2) (Thr202, Tyr204) rabbit monoclonal Antibody (upper), or Anti-ERK2 rabbit polyclonal antibody at 1:1000 dilution (lower).</p> <p>2. Western blot analysis of extracts from serum-starved Hela, untreated (line A); treated with Calyculin A (100 nM, 30 min), without peptide (line B) or antigen-specific phosphopeptide (line C) or antigen-specific peptide (line D) using Phospho-p44/42 MAPK (ERK1/2) (Thr202, Tyr204) rabbit monoclonal Antibody at 1:1000 dilution. (Validation Experiment)</p> <p>3. Western blot analysis of 15 µg extracts from serum-starved NIH-3T3, untreated (-); treated with PDGFA (5 µg/mL, 5 min; +), using Phospho-ERK1/2 (Thr202, Tyr204) Antibody, Rabbit MAB at 1:1000 dilution. (Validation Experiment)</p> <p>4. Western blot analysis of extracts from serum-starved Hela, treated with Calyculin A (100 nM, 30 min), using Phospho-p44/42 MAPK (ERK1/2) (Thr202, Tyr204) rabbit monoclonal Antibody and other brands' antibodies (company C) at dilution of 1:1000, 1:10000 and 1:200000. (Validation Experiment)</p>
Application:	WB
Recommended	WB: 1:1000-1:20000

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	A synthetic peptide: residues around Thr202, Tyr204 of Human Phospho-ERK1/2.
Antigen Species:	Human
Synonyms:	HUMKER1A;P44ERK1;Erk2;p44-ERK1;p-ERK1/2 (Thr202, Tyr204);Phospho-ERK1/2 (T202, Y204); HS44KDAP;PRKM3;ERK1;p44-MAPK;ERK1/2 (p-Thr202, Tyr204);ERK-1;ERT2;ERK-2;P44MAPK; ERK1/2 (p-T202, Y204);p-ERK1/2 (T202, Y204)
Biology Area:	Cancer Drug Targets

### Research Background

MAPK3 (Mitogen-Activated Protein Kinase 3, also known as ERK1) is a Protein Coding gene. The protein encoded by the ERK1 gene is a member of the MAP kinase family. 3 alternatively spliced human isoforms have been reported. The protein is a serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK1/ERK2 and MAPK3/ERK1 are the 2 MAPKs that play an important role in the MAPK/ERK cascade. They participate also in a signaling cascade initiated by activated KIT and KITLG/SCF. ERK1 is widely expressed in the small intestine, colon, and other tissues. Diseases associated with MAPK3 include Neutrophil Migration and Pertussis. Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

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