

ERK 2 Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP03060
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human p42 MAPK. AA range:136-185
Mol wt	41390
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	WB, IHC-p, IF, ELISA
Concentration	1 mg/ml
Full name	ERK 2 Antibody
Synonyms	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 k

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

MAPK1 (mitogen-activated protein kinase 1) 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 reported for MAPK1.

Recommended Dilution

WB: 1: 500 - 1: 2000

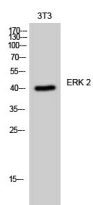
IHC: 1: 100 - 1: 300

IF: 1: 200 - 1: 1000

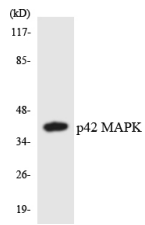
ELISA: 1: 5000

Not yet tested in other applications.

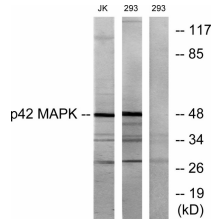
Images



Western Blot analysis of 3T3 cells using ERK 2 Polyclonal Antibody diluted at 1:2000



Western blot analysis of the lysates from HUVEC cells using p42 MAPK antibody.



Western blot analysis of lysates from Jurkat and 293 cells, using p42 MAPK Antibody. The lane on the right is blocked with the synthesized peptide.

Storage

-20°C for one year

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