



# Anti-MAPK1 (aa 261-360) polyclonal antibody (DPAB-DC2462)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

**Antigen Description**

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 reported for this gene.

**Immunogen**

MAPK1 (AAH17832, 261 a.a. ~ 360 a.a) partial recombinant protein with GST tag. The sequence is  
RNYLLSLPHKNKVPWNRLFPNADSKALDLKDMLTFNPHKRIEVEQALAHPYLEQYYDPS  
DEPIAEAPFKFDMELDDLPKEKLKELIFEETARFQPGYRS

**Source/Host**

Mouse

**Species Reactivity**

Human

**Conjugate**

Unconjugated

**Applications**

ELISA,

**Size**

50 µl

**Buffer**

50 % glycerol

**Preservative**

None

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

---

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">MAPK1 mitogen-activated protein kinase 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	MAPK1
<b>Synonyms</b>	MAPK1; mitogen-activated protein kinase 1; ERK; p38; p40; p41; ERK2; ERT1; ERK-2; MAPK2; PRKM1; PRKM2; P42MAPK; p41mapk; p42-MAPK; MAPK 2; MAP kinase 1; MAP kinase 2; MAP kinase isoform p42; protein tyrosine kinase ERK2; mitogen-activated protein kinase 2; extracellular signal-regulated kinase 2;
<b>Entrez Gene ID</b>	<a href="#">5594</a>
<b>Protein Refseq</b>	<a href="#">NP_002736</a>
<b>UniProt ID</b>	<a href="#">P28482</a>
<b>Chromosome Location</b>	22q11.21
<b>Pathway</b>	AGE/RAGE pathway; ARMS-mediated activation; Activated TLR4 signalling; Activation of the AP-1 family of transcription factors
<b>Function</b>	ATP binding; DNA binding; MAP kinase activity; RNA polymerase II carboxy-terminal domain kinase activity

---