



Anti-MAPK7 (aa 561-677) polyclonal antibody (DPAB-DC2465)

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

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases 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. This kinase is specifically activated by mitogen-activated protein kinase kinase 5 (MAP2K5/MEK5). It is involved in the downstream signaling processes of various receptor molecules including receptor type kinases, and G protein-coupled receptors. In response to extracellular signals, this kinase translocates to cell nucleus, where it regulates gene expression by phosphorylating, and activating different transcription factors. Four alternatively spliced transcript variants of this gene encoding two distinct isoforms have been reported.
Immunogen	MAPK7 (AAH07404, 561 a.a. ~ 677 a.a) partial recombinant protein with GST tag. The sequence is PQSSMSESPDVNLVTQQLSKSQVEDPLPPVFSGTPKGSGAGYGVGFDLEEFLNQSFDMGV ADGPQDGQADSASLSASLLADWLLEGHGMNPADIESLQREIQMDSPMLLADLPDLQDP
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

Gene Name	MAPK7 mitogen-activated protein kinase 7 [Homo sapiens (human)]
Official Symbol	MAPK7
Synonyms	MAPK7; mitogen-activated protein kinase 7; BMK1; ERK4; ERK5; PRKM7; BMK-1; ERK-5; MAPK 7; BMK1 kinase; MAP kinase 7; big MAP kinase 1; extracellular signal-regulated kinase 5; extracellular-signal-regulated kinase 5;
Entrez Gene ID	5598
Protein Refseq	NP_002740
UniProt ID	A0A024QZ20
Chromosome Location	17p11.2
Pathway	Activated TLR4 signalling; Cellular Senescence; EGFR1 Signaling Pathway; ERKs are inactivated
Function	ATP binding; MAP kinase activity; mitogen-activated protein kinase binding; protein binding