



# Anti-MAP3K5 (aa 1231-1374) polyclonal antibody (DPAB-DC1917)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	Mitogen-activated protein kinase (MAPK) signaling cascades include MAPK or extracellular signal-regulated kinase (ERK), MAPK kinase (MKK or MEK), and MAPK kinase kinase (MAPKKK or MEKK). MAPKK kinase/MEKK phosphorylates and activates its downstream protein kinase, MAPK kinase/MEK, which in turn activates MAPK. The kinases of these signaling cascades are highly conserved, and homologs exist in yeast, Drosophila, and mammalian cells. MAPKKK5 contains 1,374 amino acids with all 11 kinase subdomains. Northern blot analysis shows that MAPKKK5 transcript is abundantly expressed in human heart and pancreas. The MAPKKK5 protein phosphorylates and activates MKK4 (aliases SERK1, MAPKK4) in vitro, and activates c-Jun N-terminal kinase (JNK)/stress-activated protein kinase (SAPK) during transient expression in COS and 293 cells; MAPKKK5 does not activate MAPK/ERK.
<b>Immunogen</b>	MAP3K5 (AAH54503, 1231 a.a. ~ 1374 a.a) partial recombinant protein with GST tag. The sequence is SHDSQSAHRSLNVQLGRMKIETNRLLEELVRKEKELQALLHRAIEEKDQEIKHLKLKSQP IEIPELPVFHLNSSGTNTEDSELTDWLRVNGADEDITISRFLAEDYTLLDVLYYVTRDDLK CLRLRGGMLCTLWKAIDFRNKQT
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol

<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">MAP3K5 mitogen-activated protein kinase kinase kinase 5 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	MAP3K5
<b>Synonyms</b>	MAP3K5; mitogen-activated protein kinase kinase kinase 5; ASK1; MEKK5; MAPKKK5; ASK-1; MEKK 5; MEK kinase 5; MAP/ERK kinase kinase 5; MAPK/ERK kinase kinase 5; apoptosis signal regulating kinase 1; apoptosis signal-regulating kinase 1;
<b>Entrez Gene ID</b>	<a href="#">4217</a>
<b>Protein Refseq</b>	<a href="#">NP_005914</a>
<b>UniProt ID</b>	<a href="#">Q99683</a>
<b>Chromosome Location</b>	6q22.33
<b>Pathway</b>	Amyotrophic lateral sclerosis (ALS); Apoptosis Modulation and Signaling; Cellular responses to stress; Corticotropin-releasing hormone
<b>Function</b>	ATP binding; MAP kinase kinase kinase activity; cysteine-type endopeptidase activator activity involved in apoptotic process; magnesium ion binding