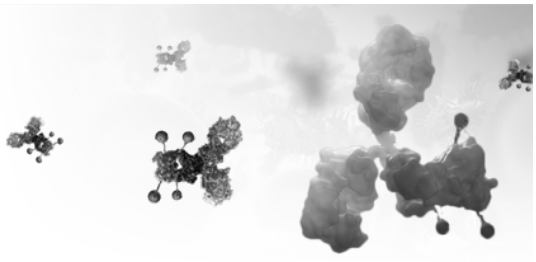

Human MAP2K1 peptide (DAG-P1756)

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 dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. As an essential component of MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development. [provided by RefSeq, Jul 2008]
Specificity	Widely expressed, with extremely low levels in brain.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.Contains 1 protein kinase domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	MAP2K1 mitogen-activated protein kinase kinase 1 [Homo sapiens (human)]
Official Symbol	MAP2K1

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Synonyms	MAP2K1; mitogen-activated protein kinase kinase 1; CFC3; MEK1; MKK1; MAPKK1; PRKMK1; dual specificity mitogen-activated protein kinase kinase 1; MEK 1; MAPKK 1; MAPK/ERK kinase 1; ERK activator kinase 1; protein kinase, mitogen-activated, kinase 1 (MAP kinase kinase 1);
Entrez Gene ID	5604
mRNA Refseq	NM_002755.3
Protein Refseq	NP_002746.1
UniProt ID	A4QPA9
Chromosome Location	15q22.1-q22.33
Pathway	AGE/RAGE pathway, organism-specific biosystem; ARMS-mediated activation, organism-specific biosystem; Activated TLR4 signalling, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Alcoholism, organism-specific biosystem; Alcoholism, conserved biosystem; Axon guidance, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; B cell receptor signaling pathway, organism-specific biosystem
Function	ATP binding; MAP kinase kinase activity; Ras GTPase binding; mitogen-activated protein kinase kinase kinase binding; protein binding; protein kinase activity; protein serine/threonine kinase activator activity; protein serine/threonine kinase activity; pr

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