Recombinant Human MAPK12, GST-tagged, Active

Cat. No. MAPK12-375H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human MAPK12 was expressed by*baculovirus*in*Sf9 insect cells*using an N-terminal GST tag. MW=71 kDa.
Species	Human
Source	Sf9 Cells
Description	P38γ is a member of the p38 MAPK family which is activated in response to stress. p38γ gene was mapped to 22q13.3 and functions as a signal transducer during differentiation of myoblasts to myotubes. Enforced localization of p38γ in the nucleus or cytoplasm markedly attenuates the ability of the kinase to induce cell cycle arrest in fibroblasts. p38γ increases basal glucose uptake and decreases DNP- and contraction-stimulated glucose uptake, partially by affecting levels of glucose transporter expression in skeletal muscle.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at –70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
22q13.33	22q13.33

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GENE INFORMATION

Gene Name	MAPK12 mitogen-activated protein kinase 12 [Homo sapiens]
Synonyms	MAPK12; mitogen-activated protein kinase 12; ERK3; ERK6; SAPK3; PRKM12; SAPK-3; P38GAMMA; stress-activated protein kinase 3; mitogen-activated protein kinase 3; EC 2.7.11.24
Gene ID	6300
mRNA Refseq	NM_002969
Protein Refseq	NP_002960
MIM	602399
UniProt ID	P53778
Pathway	Amyotrophic lateral sclerosis (ALS); Epithelial cell signaling in Helicobacter pylori infection; Fc epsilon RI signaling pathway; GnRH signaling pathway; Leukocyte transendothelial migration; MAPK signaling pathway; Neurotrophin signaling pathway; RIG-I-like receptor signaling pathway; T cell receptor signaling pathway; Toll-like receptor signaling pathway; VEGF signaling pathway; Signalling by NGF
Function	ATP binding; MAP kinase activity; MAP kinase kinase activity; MP kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity; transferase activity

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