

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 <i>baculovirus</i> in <i>Sf9 insect cell</i> using an N-terminal GST tag. MW=71 kDa.
Species	Human
Source	Sf9 Cells
Description	p38 γ is a member of the p38 MAPK family which is activated in response to stress. p38 γ gene was mapped to 22q13.3 and functions as a signal transducer during differentiation of myoblasts to myotubes. Enforced localization of p38 γ in the nucleus or cytoplasm markedly attenuates the ability of the kinase to induce cell cycle arrest in fibroblasts. p38 γ 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 -70°C . 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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