Recombinant Human Jun Proto-Oncogene, GST-tagged

Cat. No. JUN-4856H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human JUN (1-79) was expressed in E.coli cells using a N-terminal GST tag.
Species	Human
Source	E.coli
ProteinLength	1-79 a.a.
Description	JUN is a proto-oncogene that forms a complex with c-Fos which regulates transcription from promoters containing AP-1 activation elements. JUN has specific DNA binding activity and following in vitro translation, JUN binds as a homodimer to the AP-1 DNA site. The transactivating function of JUN is acutely regulated by a wide variety of cellular signals via modulation of phosphorylation of two serines (63 and 73). JUN N-terminal domain kinases (JNKs), are responsible for mediating S63/73 phosphorylation on JUN in response to a variety of cellular stimuli including TNF-a, heat stress and u.v. light.
Applications	Kinase Assay;Western Blot
Molecular Weight	35 kDa
Expression System	E.coli
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10 mM

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	glutathione, 0.1 mM EDTA, 0,25 mM DTT, 0.1 mM PMSF, 25% glycerol.
Purity	> 50 %
Concentration	0.2 ug/ul
Sequences	1-79
Storage	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.
Pathways	ATF-2 transcription factor network; Activated TLR4 signalling; Apoptosis; BCR signaling pathway; Focal Adhesion; Glucocorticoid receptor regulatory network; TGF-beta Receptor Signaling Pathway; Toll-like receptor signaling pathway; Validated transcriptional targets of AP1 family members Fra1 and Fra2; Wnt signaling pathway

GENE INFORMATION

Gene Name	JUN jun oncogene [Homo sapiens]
Official Symbol	JUN
Synonyms	JUN; jun proto-oncogene; AP1; AP-1; c-Jun; transcription factor AP-1; p39; jun oncogene; OTTHUMP00000010036; activator protein 1; proto-oncogene c-Jun; enhancer-binding protein AP1; Jun activation domain binding protein; v-jun sarcoma virus 17 oncogene homolog; v-jun avian sarcoma virus 17 oncogene homolog; v-jun sarcoma virus 17 oncogene homolog (avian); Activator protein 1; Proto-oncogene c-Jun
Gene ID	3725

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mRNA Refseq	NM_002228
Protein Refseq	NP_002219
MIM	165160
UniProt ID	P05412
Chromosome Location	1p32-p31
Function	DNA binding; R-SMAD binding; Rho GTPase activator activity; double-stranded DNA binding; protein binding; Protein homodimerization activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; transcription coactivator activity; transcription factor binding; transcription regulatory region DNA binding
PDBrendering based on 1a02.	

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