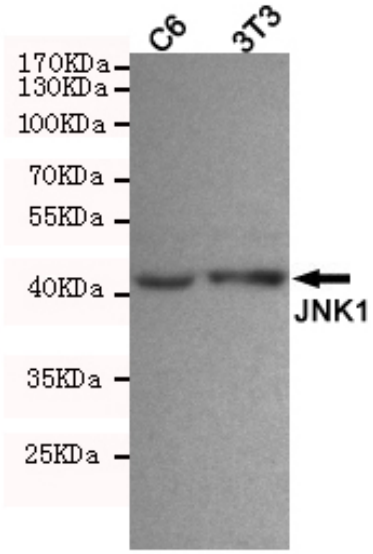
JNK1 mouse mAb

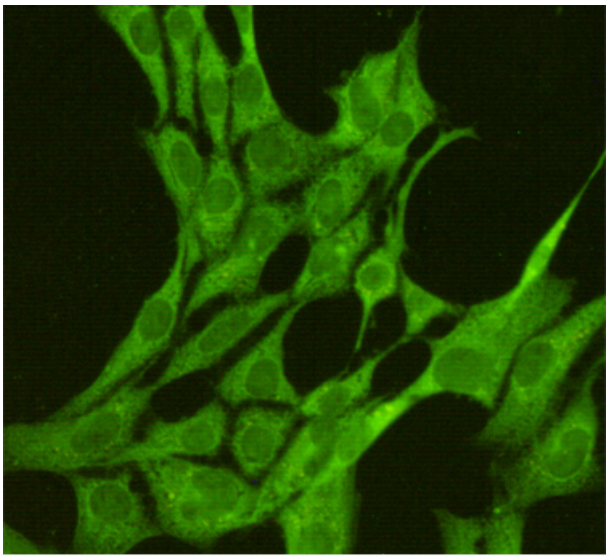
Catalog No	BYab-20797
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IF
Gene Name	mapk8
Protein Name	
Immunogen	Purified recombinant human JNK1 protein fragments expressed in E.coli.
Specificity	This antibody detects endogenous levels of JNK1 and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb dilution 1:1000 icc dilution 1:100. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	AI849689 ;c Jun N terminal kinase 1 ;C-JUN kinase 1 ;c-Jun N-terminal kinase 1 ;EC 2.7.11.24 ;JAK 1A ;JAK1A ;JNK 1 ;JNK 46 ;JNK ;JNK-46 ;JNK1A2 ;JNK21B1/2 ;MAP kinase 8 ;MAPK 8 ;MAPK8 ;Mitogen activated protein kinase 8 ;Mitogen-activated protein kinase 8 ;MK08_HUMAN ;p54 gamma ;PRKM 8 ;PRKM8 ;Protein kinase JNK1 ;Protein kinase, mitogen-activated, 8 ;SAPK 1 ;SAPK gamma ;SAPK1 ;Stress activated protein kinase JNK1 ;Stress-activated protein kinase 1 ;Stress-activated protein kinase JNK1 ;Tyrosine protein kinase JAK1 .
Observed Band	46,54kD
Cell Pathway	Cytoplasm . Nucleus . Cell junction, synapse . In the cortical neurons, predominantly cytoplasmic and associated with the Golgi apparatus and endosomal fraction. Increased neuronal activity increases phosphorylated form at synapses (By similarity). Colocalizes with POU5F1 in the nucleus. .
Tissue Specificity	Brain,Epithelium,Fetal brain,Lung,Pooled,Testis,

Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,domain:The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.,enzyme regulation:Activated by threonine and tyrosine phosphorylation by either of two dual specificity kinases, MAP2K4 and MAP2K7. Inhibited by dual specificity phosphatases, such as DUSP1.,function:JNK1 isoforms display different binding patterns: beta-1 preferentially binds to c-Jun, whereas alpha-1, alpha-2, and beta-2 have a similar low level of binding to both c-Jun or ATF2. However, there is no correlation between binding and phosphorylation, which is achieved at about the same efficiency by all isoforms.,function:Responds to activation by environmental stress and pro-inflammatory cytokines by phosphorylating a number of transcription factors, primarily components of AP-1 such as JUN, JDP
Background	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various cell stimuli, and targets specific transcription factors, and thus mediates immediate-early gene expression in response to cell stimuli. The activation of this kinase by tumor-necrosis factor alpha (TNF-alpha) is found to be required for TNF-alpha induced apoptosis. This kinase is also involved in UV radiation induced apoptosis, which is thought to be related to cytochrom c-mediated cell death pathway. Studies of the mouse counterpart of this gene suggested that this kinase play a key role in T cell proliferation, apoptosis and differentiation. Several alternatively spl
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

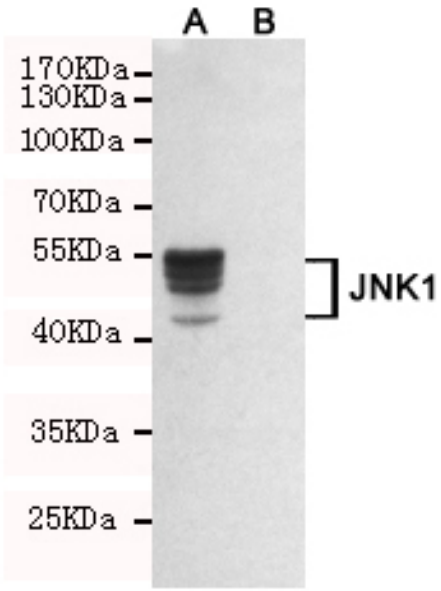
Products Images



Western blot detection of JNK1 in C6 and 3T3 cell lysates using JNK1 mouse mAb (1:1000 diluted).Predicted band size:46,54KDa.Observed band size:46KDa.



Immunofluorescent analysis of 3T3 cells fixed by anhydrous methanol for 2 h at -20℃ and using anti-JNK1 mouse mAb (dilution 1:100).



Western blot detection of JNK1 in CHO-K1 cell lysate(B) and CHO-K1 transfected by JNK1-fragment fusion protein(A) cell lysate using JNK1 mouse mAb (1:2000 diluted).Predicted band size:46,54KDa.Observed band size:46,54KDa.