

U-Blot[®] SAPK/JNK (phospho T183/Y185) Mouse mAb (WT9108)

User Manual

General Information

Product name	U-Blot [®] SAPK/JNK (phospho T183/Y185) Mouse mAb
Product No.	WT9108
Clonality	Recombinant monoclonal
Clone Number	W-R76
Alternative name	JNK2, PRKM9, SAPK1A

Key Features

Target	Phospho-SAPK/JNK (Thr183/Tyr185)
Reactivity	Human
Applications	WB
MW(Calculated)	48 kDa
MW(Observed)	46, 54 kDa
Host Species	Mouse
Isotype	IgG1
Conjugate	Unconjugated
Modification	Phosphorylation
Modification Site	Thr183/Tyr185
Purification	Protein A affinity purification
Immunogen	Polypeptide
Specificity	Specific for SAPK/JNK only when phosphorylated at Thr183/Tyr185

Storage Information

Storage	Store at -20°C. Avoid repeated freeze-thaw cycles
Stability	Stable for 12 months from date of receipt / reconstitution.
Formulation	PBS, Glycerol, BSA

Product Usage Information

Applications	Dilution	Recommended Species
WB	1:1000	Human

Target Information

Gene name	MAPK8
Protein name	Mitogen-activated protein kinase 8
Organism	Human
Gene ID	5599
SwissProt	P45984

The stress-activated protein kinase/Jun-amino-terminal kinase SAPK/JNK is potently and preferentially activated by a variety of environmental stresses, including UV and gamma radiation, ceramides, inflammatory cytokines, and in some instances, growth factors and GPCR agonists. As with the other MAPKs, the core signaling unit is composed of a MAPKKK, typically MEKK1-MEKK4, or by one of the mixed lineage kinases (MLKs), which phosphorylate and activate MKK4/7. Upon activation, MKKs phosphorylate and activate the SAPK/JNK kinase. Stress signals are delivered to this cascade by small GTPases of the Rho family (Rac, Rho, cdc42). Both Rac1 and cdc42 mediate the stimulation of MEKKs and MLKs. Alternatively, MKK4/7 can be activated in a GTPase-independent mechanism via stimulation of a germinal center kinase (GCK) family member. There are three SAPK/JNK genes each of which undergoes alternative splicing, resulting in numerous isoforms. SAPK/JNK, when active as a dimer, can translocate to the nucleus and regulate transcription through its effects on c-Jun, ATF-2, and other transcription factors.

Background

Cellular Localization	Cytoplasm, Nucleus
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