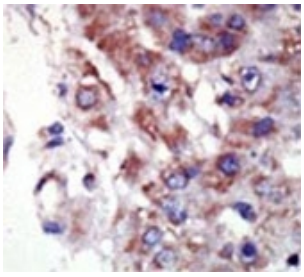
JNK2 Antibody (F50465)

Catalog No.	Formulation	Size
F50465-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50465-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P45984
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:50-1:100
Limitations	This JNK2 antibody is available for research use only.

Western blot analysis of JNK2 antibody and Jurkat cell lysate.



IHC analysis of FFPE human hepatocarcinoma tissue stained with the JNK2 antibody

Description

JNK2 responds to activation by environmental stress and pro-inflammatory cytokines by phosphorylating a number of transcription factors, primarily components of AP-1 such as c-Jun and ATF2 and thus regulates AP-1 transcriptional activity. In T-cells, JNK1 and JNK2 are required for polarized differentiation of T-helper cells into Th1 cells. JNK2 isoforms display different binding patterns: alpha-1 and alpha-2 preferentially bind to c-Jun, whereas beta-1 and beta-2 bind to ATF2. However, there is no correlation between binding and phosphorylation, which is achieved at about the same efficiency by all isoforms. JUNB is not a substrate for JNK2 alpha-2, and JUND binds only weakly to it. JNK2 is activated by threonine and tyrosine phosphorylation by either of two dual specificity kinases, MAP2K4 and MAP2K7. It is inhibited by dual specificity phosphatases, such as DUSP1. The protein has been shown to bind to at least three scaffolding proteins, MAPK8IP1/JIP-1, MAPK8IP2/JIP-2 and MAPK8IP3/JIP-3/JSAP1. These proteins also bind other components of the JNK signaling pathway

Application Notes

Titration of the JNK2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 349-379 from the human protein was used as the immunogen for this JNK2 antibody.

Storage

Aliquot the JNK2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.