Datasheet for ABIN1882172

anti-JNK2 antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	JNK2 (MAPK9)
Binding Specificity:	AA 349-379, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This JNK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This JNK2 (MAPK9) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 349-379 amino acids from the C-terminal region of human JNK2 (MAPK9).
Clone:	RB2510
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	JNK2 (MAPK9)
Alternative Name:	JNK2 (MAPK9) (MAPK9 Products)

Target Details

Background:	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
Molecular Weight:	48139
NCBI Accession:	NP_001128516, NP_002743, NP_620707, NP_620708, NP_620709
UniProt:	P45984
Pathways:	MAPK Signaling, WNT Signaling, TLR Signaling, Fc-epsilon Receptor Signaling Pathway, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Endopeptidase Activity, Hepatitis C, Toll-Like Receptors Cascades, BCR Signaling, S100 Proteins

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C

Handling

Expiry Date:	6 months

Publications

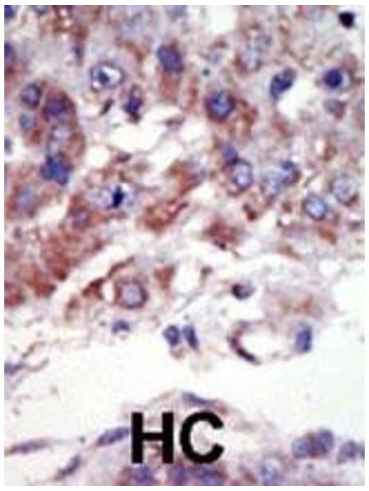
Product cited in:

Carrascal, Ovelleiro, Casas, Gay, Abian: "Phosphorylation analysis of primary human T lymphocytes using sequential IMAC and titanium oxide enrichment." in: **Journal of proteome research**, Vol. 7, Issue 12, pp. 5167-76, (2009) (PubMed).

Koulich, Li, DeMartino: "Relative structural and functional roles of multiple deubiquitylating proteins associated with mammalian 26S proteasome." in: **Molecular biology of the cell**, Vol. 19, Issue 3, pp. 1072-82, (2008) (PubMed).

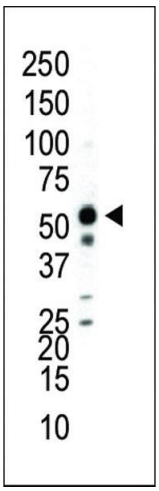
Reuter, Medhurst, Waisfisz, Zhi, Herterich, Hoehn, Gross, Joenje, Hoatlin, Mathew, Huber: "Yeast two-hybrid screens imply involvement of Fanconi anemia proteins in transcription regulation, cell signaling, oxidative metabolism, and cellular transport." in: **Experimental cell research**, Vol. 289, Issue 2, pp. 211-21, (2003) (PubMed).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



Western Blotting

Image 2. Western blot analysis of anti-JNK2 Pab (ABIN1882172 and ABIN2841614) in Jurkat cell lysate. JNK2 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.