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JIP-2 (h): 293T Lysate: sc-177412

BACKGROUND

c-Jun NH₂-terminal kinases (JNKs) are distant members of the MAP kinase family. JNK1 is activated by dual phosphorylation at a Thr-Pro-Tyr motif in response to ultraviolet (UV) light, and it functions to phosphorylate c-Jun at amino-terminal serine regulatory sites, Ser 63 and Ser 73, resulting in transcriptional activation. Two additional JNK family members have been identified as JNK2 and JNK3. JIP-1 (for JNK interacting protein-1) has been identified as a cytoplasmic inhibitor of JNK that retains JNK in the cytoplasm, thereby inhibiting JNK-regulated gene expression. Evidence suggests that JNK1 and JNK2 bind to JIP-1 with greater affinity than to ATF-2 and c-Jun, which are targets of the JNK signaling pathway. JIP-1 contains an amino-terminal JNK binding domain and a carboxy-terminal SH3 domain. ATF-2 and c-Jun also contain the JNK binding domain and are thought to compete with JIP-1 for JNK binding. Multiple splice variants of JIP-1, including JIP-1b, JIP-1c (also designated islet-brain 1 or IB-1), JIP-2a, JIP-2b and JIP-3, have been identified in brain.

REFERENCES

1. Pulverer, B.J., et al. 1991. Phosphorylation of c-Jun mediated by MAP kinases. *Nature* 353: 670-674.
2. Smeal, T., et al. 1992. Oncoprotein-mediated signalling cascade stimulates c-Jun activity by phosphorylation of Serines 63 and 73. *Mol. Cell. Biol.* 12: 3507-3512.
3. Derijard, B., et al. 1994. JNK1: a protein kinase stimulated by UV light and Ha-Ras that binds and phosphorylates the c-Jun activation domain. *Cell* 76: 1025-1037.
4. Kyriakis, J.M., et al. 1994. The stress-activated protein kinase subfamily of c-Jun kinases. *Nature* 369: 156-160.
5. Davis, R.J. 1995. Transcriptional regulation by MAP kinases. *Mol. Reprod. Dev.* 42: 459-467.
6. Dickens, M., et al. 1997. A cytoplasmic inhibitor of the JNK signal transduction pathway. *Science* 277: 693-696.
7. Kim, I.J., et al. 1999. Molecular cloning of multiple splicing variants of JIP-1 preferentially expressed in brain. *J. Neurochem.* 72: 1335-1343.
8. Yasuda, J., et al. 1999. The JIP group of mitogen-activated protein kinase scaffold proteins. *Mol. Cell. Biol.* 19: 7245-7254.

CHROMOSOMAL LOCATION

Genetic locus: MAPK8IP2 (human) mapping to 22q13.33.

PRODUCT

JIP-2 (h): 293T Lysate represents a lysate of human JIP-2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

JIP-2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive JIP-2 antibodies. Recommended use: 10-20 µl per lane.

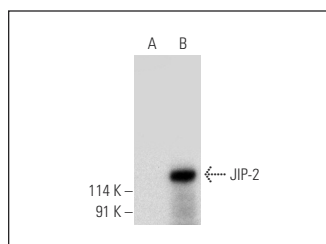
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

JIP-2 (C-10): sc-398926 is recommended as a positive control antibody for Western Blot analysis of enhanced human JIP-2 expression in JIP-2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

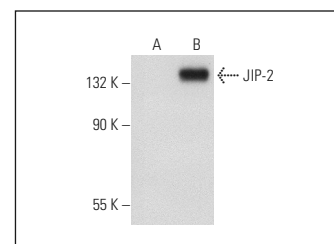
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



JIP-2 (C-10): sc-398926. Western blot analysis of JIP-2 expression in non-transfected: sc-117752 (A) and human JIP-2 transfected: sc-177412 (B) 293T whole cell lysates.



JIP-2 (1E11): sc-53553. Western blot analysis of JIP-2 expression in non-transfected: sc-117752 (A) and human JIP-2 transfected: sc-177412 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.