cellsciences.com

Anti-ASK1 **(CT)** ***MAPKKK5***

CATALOG No.: PX086A SIZE: 100 µg
PX086B SIZE: 0.5 mg

BACKGROUND:

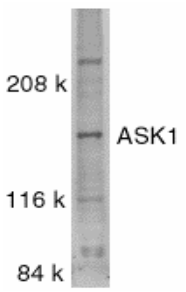
Mitogen-activated protein (MAP) kinase cascades are activated in response to various extracellular stimuli, including cytokines, growth factors and environmental stresses. A novel MAP kinase kinase kinase (MAPKKK) was recently identified and designated ASK1 (for apoptosis signal-regulating kinase 1) and MAPKKK5 (1-3). ASK1 activated two different subgroups of MAPKK, MKK4 and MKK6, which in turn activated c-Jun N-terminal kinase (JNK) and p38 MAP kinase, respectively. ASK1/MAPKKK5 is activated by TNFR and Fas through the interaction with members of the TRAF family and Fas-associated protein Daxx. Overexpression of ASK1 induced apoptotic cell death, and a catalytically inactive form of ASK1 inhibited TNF-α-induced apoptosis. ASK1 is expressed in variety of human and mouse tissues.

SOURCE:

Rabbit anti-ASK1 polyclonal antibody was raised against a peptide corresponding to amino acids 1356 to 1375 of human ASK1 (1). This sequence is different from that of mouse by last two amino acids (3).

APPLICATION:

This polyclonal antibody can be used for detection of ASK1 by Western blot at 1:500 to 1:1000 dilution. Whole cell lysate from SW1353 can be used as positive control and a 155 kDa band can be detected. For research use only.



Western blot analysis of ASK1 in SW1353 whole cell lysate with anti-ASK1 at 1:500 dilution.

STORAGE:

It is supplied as immunoaffinity purified IgG, 100 µg in 200 µl of PBS containing 0.02% sodium azide. Store at 4°C, stable for one year

REFERENCES:

1. Ichijo H, Nishida E, Irie K, ten Dijke P, Saitoh M, Moriguchi T, Takagi M, Matsumoto K, Miyazono K, Gotoh Y. Induction of apoptosis by ASK1, a mammalian MAPKKK that activates SAPK/JNK and p38 signaling pathways. *Science* 1997;275:90-4

2. Wang XS, Diener K, Jannuzzi D, Trollinger D, Tan TH, Lichenstein H, Zukowski M, Yao Z. Molecular cloning and characterization of a novel protein kinase with a catalytic domain homologous to mitogen-activated protein kinase kinase kinase. *J Biol Chem* 1996;271:31607-11

3. Tobiume K, Inage T, Takeda K, Enomoto S, Miyazono K, Ichijo H. Molecular cloning and characterization of the mouse apoptosis signal-regulating kinase 1. *Biochem Biophys Res Commun* 1997;239:905-10

CAUTION: NOT FOR USE IN HUMANS. FOR RESEARCH PURPOSES ONLY.

Cell Sciences, Inc.
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Web Site: www.cellsciences.com

cellsciences.com

Cell Sciences, Inc.
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Web Site: www.cellsciences.com