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ASK1 Antibody

ASK1 (C2): Apoptosis signal-regulating kinase 1, MAPKKK, MEK kinase 5

CATALOG NO.: 3677

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 tissues and cell lines.

SOURCE:

Rabbit polyclonal ASK1 antibody was raised against a 16 amino acid peptide from near the carboxy terminus of human ASK1 (Genbank accession No. BAA12684).

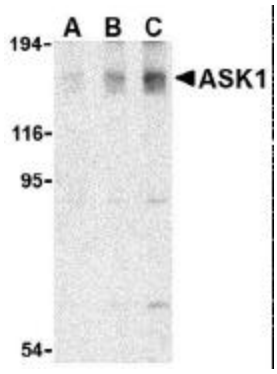
APPLICATION:

ASK1 antibody can be used for the detection of ASK1 by Western blot at 1 – 2 µg/ml. (Optimal dilution should be determined by user.) SW1353 cell lysate can be used as positive control. ASK1 antibody is human and mouse reactive.

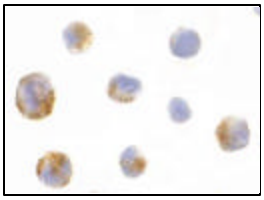
This product is for research use only.

STORAGE:

ASK1 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of ASK1 in SW1353 cell lysate with ASK1 antibody at (A) 0.5, (B) 1, and (C) 2 µg/ml.



Immunocytochemistry of ASK1 in A431 cells with ASK1 antibody at 2 µg/ml.

RELATED PRODUCTS:

Blocking peptide, Catalog No. **3677P.**
SW1353 Cell Lysate, Catalog No. **1214.**
ASK1 Antibody (CT), Catalog No. **1151.**
ASK1 Antibody (NT), Catalog No. **3679.**
Daxx Antibody (CT), Catalog No. **1163.**

REFERENCES:

1. Ichijo H, Nishida E, Irie K, et al. 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, et al. 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, et al. Molecular cloning and characterization of the mouse apoptosis signal-regulating kinase 1. *Biochem. Biophys. Res. Commun.* 1997; 239:905-10.
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