



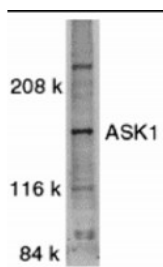
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ASK1 Antibody

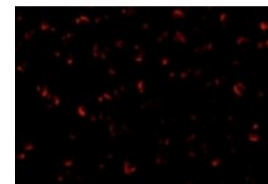
Cat. No.: 1151



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



Immunocytochemistry of ASK1 in A431 cells with ASK1 antibody at 10 ug/mL.



Immunofluorescence of ASK1 in A431 cells with ASK1 antibody at 20 ug/mL.

Ψ SPECIFICATIONS

HOST SPECIES:	Rabbit
SPECIES REACTIVITY:	Human
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Mouse: (100%)
IMMUNOGEN:	<p>ASK1 antibody was raised against a peptide corresponding to amino acids near the carboxy terminus of human ASK1.</p> <p>The sequence is different from that of mouse by last two amino acids.</p> <p>The immunogen is located within the last 50 amino acids of ASK1.</p>
TESTED APPLICATIONS:	ELISA, ICC, IF, WB
APPLICATIONS:	<p>ASK1 antibody can be used for detection of ASK1 by Western blot at 0.5 ug/mL. A 155 kDa band can be detected. Antibody can also be used for immunocytochemistry starting at 10 ug/mL. For immunofluorescence start at 20 ug/mL.</p> <p>Antibody validated: Western Blot in human samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.</p>
POSITIVE CONTROL:	1) Cat. No. 1214 - SW1353 Cell Lysate
	2) Cat. No. 17-002 - A-431 Cell Slide
PREDICTED MOLECULAR WEIGHT:	155 kDa

Ψ PROPERTIES

PURIFICATION:	ASK1 Antibody is affinity chromatography purified via peptide column.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid
BUFFER:	ASK1 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	batch dependent
STORAGE CONDITIONS:	ASK1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Ψ ADDITIONAL INFO

OFFICIAL SYMBOL:	MAP3K5
ALTERNATE NAMES:	ASK1 Antibody: ASK1, MEKK5, MAPKKK5, ASK1, Mitogen-activated protein kinase kinase kinase 5, Apoptosis signal-regulating kinase 1, ASK-1
ACCESSION NO.:	Q99683
PROTEIN GI NO.:	6685617
GENE ID:	4217
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Ψ BACKGROUND AND REFERENCES

BACKGROUND:	ASK1 Antibody: 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. 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.
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. <i>Science</i> 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. <i>J Biol Chem</i> 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. <i>Biochem Biophys Res Commun</i> 1997;239:905-10

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