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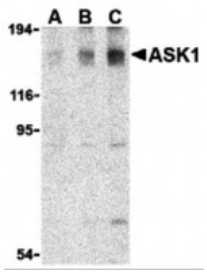
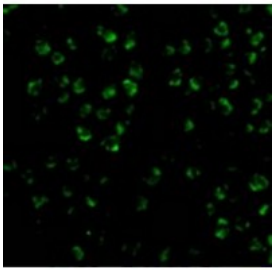
ASK1 Antibody

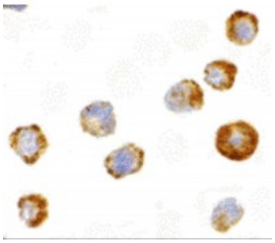
CATALOG NUMBER: 3677



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



Immunofluorescence of ASK1 in 3T3 cells with ASK1 antibody at 20 ug/mL.



Immunocytochemistry of ASK1 in A431 cells with ASK1 antibody at 2 ug/mL.

Specifications

SPECIES REACTIVITY:	Human, Mouse
TESTED APPLICATIONS:	ELISA, ICC, IF, WB
APPLICATIONS:	ASK1 antibody can be used for the detection of ASK1 by Western blot at 0.5 - 2 ug/mL. Antibody can also be used for immunocytochemistry starting at 2 ug/mL. For immunofluorescence start at 20 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1214 - SW1353 Cell Lysate
	2) Cat. No. 1202 - A431 Cell Lysate
IMMUNOGEN:	ASK1 antibody was raised against a 16 amino acid synthetic peptide from near the carboxy terminus of human ASK1. The immunogen is located within amino acids 1260 - 1310 of ASK1.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	ASK1 Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	ASK1 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
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.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

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
OFFICIAL SYMBOL:	MAP3K5
GENE ID:	4217

Background

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 tissues and cell lines.
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. Science1997; 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.

FOR RESEARCH USE ONLY

December 13, 2016