10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Phospho-ASK 1 (Ser83) Antibody

Catalog # ABV11982

Product Information

Application	WB, IHC, E
Primary Accession	Q99683
Reactivity	Human
Host	Rabbit
Isotype	Rabbit IgG
Calculated MW	154537

Additional Information

Gene ID	4217
Positive Control	WB: 293 cell lysate
Application & Usage	WB 1:500-1:2000; IHC 1:100-1:300; E 1:20000;
Other Names	Apoptosis signal-regulating kinase 1, Mitogen-activated protein kinase kinase kinase 5, ASK-1, MAPK/ERK kinase kinase 5, MEK kinase 5, MEKK 5
Target/Specificity	MAP3K5
Antibody Form	Liquid
Appearance	Colorless liquid
Handling	The antibody solution should be gently mixed before use
Reconstitution & Storage	-20°C
Background Descriptions	
Precautions	Phospho-ASK 1 (Ser83) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

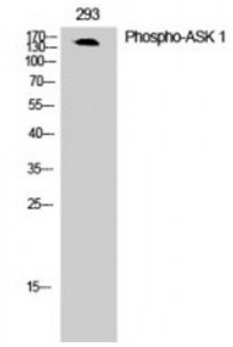
Name	MAP3K5
Synonyms	ASK1, MAPKKK5, MEKK5
Function	Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. Plays an important role in the cascades of cellular responses evoked by changes in the environment. Mediates signaling for determination of cell fate such as differentiation and survival. Plays a crucial role in the apoptosis signal transduction pathway through mitochondria-dependent caspase activation. MAP3K5/ASK1 is required for the innate immune response, which is essential for host defense against a wide

range of pathogens. Mediates signal transduction of various stressors like oxidative stress as well as by receptor-mediated inflammatory signals, such as the tumor necrosis factor (TNF) or lipopolysaccharide (LPS). Once activated, acts as an upstream activator of the MKK/JNK signal transduction cascade and the p38 MAPK signal transduction cascade through the phosphorylation and activation of several MAP kinase kinases like MAP2K4/SEK1, MAP2K3/MKK3, MAP2K6/MKK6 and MAP2K7/MKK7. These MAP2Ks in turn activate p38 MAPKs and c-jun N-terminal kinases (JNKs). Both p38 MAPK and JNKs control the transcription factors activator protein-1 (AP-1).

Cellular Location Cytoplasm. Endoplasmic reticulum. Note=Interaction with 14-3-3 proteins alters the distribution of MAP3K5/ASK1 and restricts it to the perinuclear endoplasmic reticulum region

Tissue Location Abundantly expressed in heart and pancreas.

Images



WB (WB) analysis of 293 cells using Phospho-ASK 1 (S83) Polyclonal Antibody.