

Phospho-ASK1 (Ser83) Antibody

Catalog # ABV11972

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 cells

Application & Usage WB 1:500-1:2000; E 1:5000-1:20000; IHC 1:100-1:300

Other Names Mitogen-activated protein kinase kinase kinase 5, Apoptosis signal-regulating

kinase 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-ASK1 (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).

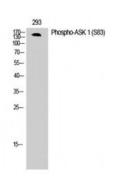
Cellular Location

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.